

value brands

make Farnell element14 your choice for top quality products at great prices

EXCLUSIVE OFFERS ON

TEST EQUIPMENT

3-Year Warranties on
key test equipment!

TOOLS

20% off selected soldering
station kit and DMM

SOLDERING STATIONS

20% Savings on
exclusive 8pc kits!

PASSIVES

Save up to **50%** on
Full reel Passives

Great Value Development,
Production and
Maintenance products



element*14*

uk.farnell.com

Ordering with Farnell element14 couldn't be easier

High service no matter how you place your order

CONTACT US

WWW.FARNELL.CO.UK

SALES: 08447 11 11 11

Monday – Friday 8am-8pm, Saturday 9am-12pm

SUPPORT: 08447 11 11 13

FAX: 08447 11 11 12

SALES@FARNELL.CO.UK

ADDRESS

Farnell element14, Sales Department, Canal Road,
Leeds, LS12 2TU

TRADECOUNTER

Fast access to stocked items and special offers.
Visit our trade counter in Leeds. For opening times,
visit farnell.com/tradecounter

ACCOUNTS ENQUIRIES

Call: 08447 11 11 33
(8am - 6.30pm, Monday - Friday)
Fax: 08447 11 11 34



FLEXIBLE PAYMENT, SPEEDY DELIVERY

Fast reliable local service

Next working day delivery¹

On all in stock orders placed before 8pm Monday – Friday

NEED IT FASTER THAN JUST NEXT WORKING DAY?

Use our express delivery service:

Weekdays pre 9.00am - £19.50

Weekdays pre 10.30am - £12.50

Weekdays pre 12 noon - £9.50

Saturday pre 12 noon - £15.50

FLEXIBLE PAYMENT OPTIONS

Trade account, cheque or credit card



THE FARNELL ELEMENT14 GUARANTEE²

If you're not 100% satisfied with your purchased products, return them within 21 days in the original packaging to: Farnell element14 Returns Dept, Farnell International Distribution Centre, Castleton Road, Leeds, LS12 2EN



1. Not available in all areas of the country. Contact Farnell Sales for details.
2. Excludes software, specially constructed items and products containing hazardous substances.
Batteries Producer Registration Number: BRPN01653. Producer Registration Number: MEEAK014912.

multicomp

TENMA™

pro-POWER

DURATOOL

Introducing our Great Value brands,
a fantastic range of affordable
components, tools and equipment
to suit all your needs.

As a valued Farnell element14 customer we are delighted to bring you a selection of offers from our value brands including Tenma, Multicomp and Duratool.

We have worked with our product teams not only to bring you a special range of offers, but exciting new products, all great quality at unbeatable prices...

uk.farnell.com

**Save upto 50% on
multicomp full reel
thick film chip
resistors!!!!**

- Small size and light weight
- Suitable for both wave and reflow soldering
- Reducing your assembly costs

Offer available whilst stocks last.

See the full range at:
uk.farnell.com/multi-fr



Measurement Range		Frequency	10Hz to 10MHz	4kHz, 40kHz, 400kHz, 4MHz, 40MHz	20Hz to 500Hz
Temperature	-40°C to +1000°C			—	—
Resistance	400ohm, 4kohm, 40kohm, 400kohm, 4Mohm, 40Mohm		400ohm, 4kohm, 40kohm, 400kohm, 4Mohm, 40Mohm		—
Active Power	—		—	0.01kW to 600kW	
Apparent Power	—		—	0.01kVA to 600kVA	
Reactive Power	—		—	0.01kVAr to 600kVAr	
Power Factor	—		—	0.3 ~ 1	
Phase Angle	—		—	0° ~ 360°	
Active Energy	—		—	1 ~ 9999kWh	
General					
Display Count	3999		9999	4000	
Power	9V		9V	6V	
Dimensions	208 x 76 x 30mm		286 x 105 x 45mm	303 x 112 x 39mm	
Weight	260g		533g	601g	685382
Price Each					
Mfrs. List No.		Order Code		1+	
72-9480		209-9730		42.44	
72-9485		209-9732		92.50	
72-9490		209-9733		129.49	

Bench Multimeter – True RMS

72-1016


W=105, H=240, D=310mm. Weight 2.4 kg


BEST SELLER

A bench top DMM with true RMS measurement of AC signals and LED display. Supplied with test leads, UK and Euro power leads, user manual, temperature probe, Alligator clips, multi-purpose test socket, RS232C interface cable and communications software.

- 5,999 count LCD display
- Backlit, full icon display
- Fused 10A measuring range
- Autoranging
- True RMS measurement with 100kHz bandwidth
- Diode, Continuity and Transistor tests
- Max/Min mode and data hold

- Low battery display and sleep mode
- Connect to PC via RS232 (software and cable included)
- Powered by mains lead or 6x C batteries (not included)
- Neat, built-in accessory storage compartment
- 2 years manufacturers warranty

	Ranges	Best Accuracy	
AC Voltage	600mV/6V/60V/600V/1000V	±(0.6%+5)	
DC Voltage	600mV/6V/60V/600V/1000V	±(0.3%+2)	
AC Current	600µA/6mA/60mA/600mA/10A	±(1.0%+5)	
DC Current	600µA/6mA/60mA/600mA/10A	±(0.5%+3)	
Resistance	600Ω/6kΩ/60kΩ/600kΩ/6MΩ/60MΩ	±(0.5%+2)	
Capacitance	6nF/60nF/600nF/6µF/60µF/600µF/6mF	±(2.0%+5)	
Temperature	-40°C - 1000°C	±(1.0%+3)	
Frequency	6kHz/60kHz/600kHz/6MHz/60MHz	±(0.1%+3)	685383

	Mfrs.	Price Each
Description	List No.	Order Code
Bench Multimeter	72-1016	119-6432
		115.94 107.75

Price Each

Standard Calibration Charge

S **C4**

34.00

UKAS Calibration Charge

N **C4**

60.22

Digital Storage Oscilloscopes

25Mhz-60Mhz


- Dual channel
- HD colour LCD display system at 320 x 240 resolution
- Supports plug-and-play USB storage devices and capable of communicating with a computer through the USB storage device
- Automatic waveform and status configuration

- Storage of waveforms, setups and bit map and waveforms, setups recurrence
- Sophisticated window expansion function to analyse waveform details and overview precisely
- Automatic measurement of 19 waveform parameters
- Automatic cursor tracing measurement
- Unique wave recording and replay function
- Built-in FFT
- Multiple waveform mathematics functions (including add, subtract, multiply and divide)
- Edge, video, pulse width and alternate trigger functions
- Multilingual menu displays
- 2 Years or 3 year manufacturers warranty (3 years on models UT-2102C, UT-2152C & UT-2202C)

Sample Rate	500MS/s
Sample Rate (72-8395)	250MS/s
Trigger Type	Edge, Pulse, Video and Alternate
Auto Waveform Measurements	28
Dimensions (WxHxD)	320x150x130mm
Weight	4kg

Bandwidth	72-8225	72-8230
Rise Time	40 MHz	60 MHz
	<8.7ns	<5.8ns
	72-8240	72-8245
Bandwidth	100 MHz	150 MHz
Rise Time	<3.5ns	<2.3ns

685384

Price Each

Mfrs. List No.	Bandwidth	Order Code	1+
72-8225	40MHz	173-9443	289.00
72-8230	60MHz	173-9444	309.00
72-8240	100MHz	173-9445	489.00
72-8245	150MHz	173-9446	575.00
72-8250	200MHz	173-9447	799.00

Digital Storage Oscilloscope



50 & 100 MHZ



Large 7 inch screen versions of the highly popular Tenna DSO range. The large screen ensures easy debugging of more complex circuits.

- Large LCD 7" colour display
- 306mm x 147mm x 122mm
- Probe x 2 (1x, 10x switchable) Manual, USB Cable, Software, UK and Euro mains included
- 2 or 3 years manufacturers warranty (3 year on 72-8710)

72-8705
72-8710

50 MHz

100 MHz

≤7 ns

≤3.5 ns

1 GS/s

50 GS/s

1mV - 20V/div

2 x 600k

2ns - 50s/div

Edge, Pulse, Alternate

28

6 Digits Trigger Frequency Counter

USB OTG

Add, Subtract, Multiply, Divide, FFT

Special Print Screen Feature

685385

Price Each

List No.

Order Code

1+

72-8705

183-6059

269.00

72-8710

183-6060

519.00

Price Each

Standard Calibration Charge

S **C16**

69.68

UKAS Calibration Charge

N **C16**

97.45

Tenna Infrared Thermometer – ONLY £45/€59



Great value general purpose infrared, non-contact thermometer, with adjustable emissivity. Accurate and easy to use.

BUY IT NOW!!!!!

Order code 156-3715 – see online for full specifications.

Handheld Oscilloscopes



2 Channel



- Continuity buzzer
- Diode
- Trend diagram
- Manual / Auto ranging
- 3 years manufacturers warranty

Kit Contents: Handheld oscilloscope, 2 x probe, 2 x current voltage convertors, power cord, DC adaptor, test lead and manual.

72-9355
72-9360
72-9365

60MHz

100MHz

200MHz

5.8ns

3.5ns

1.8ns

250MSPS

500MSPS

16GSPS

Edge, Pulse, Video and Alternate

27

6 digits frequency counter

USB Host

Add, Subtract, Multiply, Divide, FFT



	72-9355	72-9360	72-9365	Price Each
Interface	Colour and Mono display selectable			
Power	Battery or Power Adaptor			
Battery Life	3 Hours			
AC Current	6mA, 60mA, 600mA, 6A			
DC Current	6mA, 60mA, 600mA, 6A			
AC Voltage	600mV, 6V, 60V, 600V, 700V			
DC Voltage	600mV, 6V, 60V, 600V, 1000V			
Capacitance	6nF, 6mF, 60nF, 600nF, 6μF, 60μF, 600μF			
Resistance	600Ω, 6MΩ, 60MΩ, 6kΩ, 60kΩ, 600kΩ			
Display Count	5999			
Weight	1.8kg			
Dimensions	268 x 168x 60mm			685386
Mfrs.	Calibration		Price Each	
List No.	Bandwidth	Options	Order Code	1+
72-9355	60MHz	(SC16/NC16)	206-1825	599.00
72-9360	100MHz	(SC19/NC19)	206-1826	899.00
72-9365	200MHz	(SC19/NC19)	206-1827	999.00
			Price Each	
Standard Calibration Charge	S	C16	69.68	
Standard Calibration Charge	S	C19	94.25	
UKAS Calibration Charge	N	C16	97.45	
UKAS Calibration Charge	N	C19	143.90	

Amazing Offer!!!

Buy a Tenma
Oscilloscope DSO and get a
FREE USB Digital Multimeter!!

Order code 208-2249 – see online for full specifications.

**USB DSO Oscilloscopes**

60Mhz - 2 or 4-channels



- 60MHz bandwidth
- EXT trigger
- 200MSa/s real-time sampling rate
- 10k to 16M memory depth per Channel
- Arbitrary Waveform Generator
- 25MHz arbitrary waveform output,(sine wave can deliver up to 75MHz) 200MSa/s DDS, 12bits of vertical resolution
- Frequency Counter, FFT spectrum analysis
- 8 to 36V input voltage suitable for vehicle power test
- USB 2.0 interface plug and play
- Multi-language interface

72-10155 72-10160

NEW

	72-10155	72-10160	Price Each
Vertical			
No. of Channels	4	2	
Bandwidth	60MHz		
Rise Time	5.8ns		
Impedance	1MΩ		
Input Sensitivity	10mV/div to 5V/div		
Coupling	AC, DC, GND		
Vertical Resolution	8 bit		
Memory Depth	10K to 16M per Channel		
Horizontal			
Real Time Sampling Rate	200MS/s		
Time Base Precision	5ns/div to 1000s/div		
Trigger			
Source	CH1, CH2, CH3, CH4, EXT		
Mode	Edge, Pulse, Video, Alternative		
Measurement			
Voltage Measurement	Vpp, Vamp, Vmax, Vmin, Vtop, Vmid, Vbase, Vavg, Vrms, Vrms, Preshoot, Overshoot		
Time Measurement	Frequency, Period, Rise Time, Fall Time, Positive Width, Negative Width, Duty Cycle		
Waveform Signal Process	+, -, ×, ÷, FFT, Invert		
Voltage Range	10mV to 5V, 100mV to 50V, 1V to 500V, 10V to 5kV, 100V to 50kV, 200mV to 100V		
FFT	Rectangular, Hanning, Hamming, Blackman Window		
Math	Addition, subtraction, multiplication, division		
Arbitrary Wave Form			
Waveform Frequency	25MHz		
DAC	2K to 200MHz adjustable		
Vertical Resolution	12 bit		
Impedance	50		
General			
Interface	USB 2.0		
Input Voltage	8V to 36V		
Dimensions	255x190x45mm		
Weight	1kg		685387

Kit Contents: Oscilloscope, Software CD, Probes, Carry Case, USB lead, Power Adapter and BNC Lead.

Mfrs. List No.	No. of Channels	Order Code	Price Each
72-10177	4 Analogue	214-6567	418.95
72-10179	2 Analogue	214-6568	271.95

TENMA™
Up to 3 year warranty now available on Test Instruments.

Quality and value from a brand you can TRUST.

Bench Power Supply**TENMA™**

Single Output

**NEW**

- Complete digital control
- Single output
- 10mV / 1mA resolution
- Low noise and ripple
- CV / CC constant voltage and constant current mode
- OCP and OVP settings, constant protection mode
- 5 sets of parameters can be stored and recalled
- Output switch control
- Power-off memory function
- Keyboard lock function

BEST SELLER

Voltage Range 0V to 30V Operating Temperature 0°C to 40°C Weight 3.5kg
Current Range 0A to 3A Dimensions 110 x 156 x 260mm

Kit Contents: Power supply, User manual, UK power cord and Euro power cord.

Mfrs. List No.	Order Code	Price Each
72-10480	225-1946	53.00

Tenma 3MHz Function Generator with LED display
UNBELIEVABLE VALUE at £145/€167

Order code 507-4502 –
see online for full specifications.

**DC Power Supplies****TENMA™**

- Low ripple & noise linear regulated bench power supplies
- 2 x 3 digit LED's for voltage & current indication
- Constant voltage & constant current modes
- Series or parallel operation
- Test leads, Manual (UK only), UK & Euro mains included
- 2 years manufacturers warranty

210mm x 152mm x 305mm

Output Voltage	Ch1, Ch2	72-8690	72-8700
Ch3	0-32V	0-32V	0-32V
Ch1, Ch2	5V	5V	5V
Ch3	0-1A	0-3A	0-5A
Overload Effect		CV ≤ 1 x 10^-4 + 2mV, CC ≤ 2mA	
Ripple & Noise		CV ≤ 1mVrms, CC ≤ 1mA rms	
Regulation		CV -20mV (Typical Value), CC -50mV (Typical Value)	
Tracking Error		5 x 10^-3 + 2mV	

Mfrs.	72-8690	72-8695	72-8700	Price Each
List No.	Order Code			1+
72-8690	183-6056			131.06
72-8695	183-6057			139.42
72-8700	183-6058			172.88

Standard Calibration Charge	S	C5	39.00
UKAS Calibration Charge	N	C5	63.03

IMPROVED BACK ORDER DELIVERY

Receive email updates with the exact status, due date and despatch information of all your back order items **farnell.com**

Reworking Station and Tools Bundle Kit



- Featuring eight soldering/rework bestselling products
- Best value: save between 15 and 20%* on total price!
- Including TENMA Soldering and Rework Station with dual LCD displays allowing soldering and hot-air rework

In addition to the dual soldering station, the following articles are included:

- A set with the 5 most used antimagnetic stainless steel precision tweezers
- A 5-piece pliers/cutters set with a cutter and four pliers (flat, bent, round and long nose)
- A "third hand" clamp tool with integrated magnifier
- A compact and robust antistatic desoldering gun, rugged metal construction
- A low abrasive brass wool tip cleaner, helping extending soldering tip life
- A 2.6mm x 2m desoldering braid in an ergonomic and antistatic enclosure
- A useful track cutting tool for breaking copper tracks on stripboards

*depending on currency

Mfrs.	Price Each			
List No.	Order Code	1+	5+	10+
23456849	234-5695	165.00		

TENMA™

Save up to
20%
on complete bundle price.

NEW

Soldering Station



Supply Voltage	220V	Output Voltage	24V
Power	60W	Temperature Stability	$\pm 1^\circ\text{C}$ (Static)
Temperature Range	+150°C to +450°C	Display	LCD

685395

TENMA™

NEW

- Antistatic safety
- Computerized temperature correction to calibrate the temperature difference between the soldering tip and display temperature
- Detachable iron with pencil-style tip
- LED digital display
- Ideal for workshops
- Ideal for lead-free solder, rosin-core, lead-based, silver-bearing or any other
- Available either with European or UK power cord

Mfrs.	Price Each			
List No.	Order Code	1+	5+	10+
AT60D-EU	207-5392	53.32	51.69	50.05
AT60D-UK	207-5393	49.00	42.00	39.00

Replacement Soldering Iron

AT907-60D	225-4041	11.95	11.60	10.75
-----------	----------	-------	-------	-------

Replacement Heating Element

CBB018722	211-3923	7.24	6.80	6.48
-----------	----------	------	------	------

Soldering Station



Supply Voltage	220V	Output Voltage	28V
Power	60W	Temperature Stability	$\pm 1^\circ\text{C}$ (Static)
Temperature Range	+150°C to +450°C	Display	LCD

685391

TENMA™

NEW

- Antistatic safety
- Three programmable preset temperature buttons
- Precise temperature control and computerized temperature calibration
- Two-core heating element
- LCD display
- °C/F temperature
- Available either with European or UK power cord

Kit Contents:	Power Unit, Soldering Iron, Iron Holder, 0.5mm Conical tip, Sponge, Power Cord and Manual.			
Mfrs.	685391			

Mfrs.	Price Each			
List No.	Order Code	1+	5+	10+
21-10115 UK	206-4549	36.00	31.00	29.00
21-10115 EU	206-2627	40.14	38.93	37.77

Replacement Soldering Iron

AT907-938D	225-4040	11.95	11.60	10.75
------------	----------	-------	-------	-------

Replacement Heating Element

CBB018722	211-3923	7.24	6.80	6.48
-----------	----------	------	------	------

Soldering Station

TENMA™

NEW



- Antistatic safety
- 3 temperature presets for frequently used temperatures
- Detachable iron with pencil-style tip
- Includes cradle stand
- Clear LED digital display, interchangeable between Fahrenheit and Celsius
- Ideal for workshops, onfield soldering jobs

- Display shows temperature setting and actual temperature
- Ideal for lead-free solder, rosin-core, lead-based, silver-bearing or any other
- Available either with European or UK power cord

Supply Voltage	220V	Output Voltage	26V
Power	60W	Temperature Stability	$\pm 1^\circ\text{C}$ (Static)
Temperature Range	+150°C to +450°C	Display	LCD

685392

Price Each

List No.	Order Code	1+	5+	10+
21-10120 UK	206-4550	44.95	42.95	40.95
Replacement Soldering Iron				

AT907-201D	225-4042	11.95	11.60	10.75
------------	----------	-------	-------	-------

Hot Air Rework Station

TENMA™

NEW



- Closed loop control of sensor, accurate and stable temperature, which can safely desolder the temperature-sensitive components, such as QFP, PLCC, SOP, BGA and so on
- Intelligent cooling system, Delay blast after operation, automatic power off when air temperature is less than 100°C
- Powerful heating element allowing short heating time, good welding performances at constant or adjustable temperature

- High quality air pump for low noise and vibration levels
- Anti-Static design to avoid bringing damage to PCB board due to static and creepage
- Available either with European or UK power cord

Supply Voltage	220V	Air Pump	Diaphragm
Power	560W	Output Voltage	187 x 135 x 245mm
Temperature Range	+100°C to +480°C	Weight	4.5g

685393

Price Each

List No.	Order Code	1+	5+	10+
21-10125 UK	206-4551	95.00	89.00	—
21-10125 EU	206-2632	111.52	108.18	104.93

Replacement Heating Element	211-3924	9.52	8.99	8.60

SMD Rework Station

TENMA™

NEW



- Large LCD screen immediately displays working conditions and sets of parameters
- Rapid temperature rise
- Convertible temperature units °C/F
- Cold air and stopping heating
- Hot air gun is compatible with various kinds of nozzles

- Sleep mode, automatic switch-off for energy saving
- Keys for temperature and air flow adjustment placed right on the handle
- Three groups of stored data facilitate usage
- Temperature compensation ensures stable temperature state
- Malfunction alert (displaying H-E for heating elements and S-E for sensor)
- Delivered with both European and UK power cord

Supply Voltage	220V	Temperature Range	Hot Air Gun: +100°C to +500°C
Power	Hot Air Gun: 800W	Soldering Iron: +200°C to +480°C	Soldering Iron: 50W
Pump	40W	Air Volume	20-100% from max.

685394

Price Each

List No.	Order Code	1+	5+	10+
21-10130 UK+EU	206-2633	128.27	124.43	120.69

Replacement Soldering Iron	225-4043	8.95	8.40	7.95
----------------------------	----------	------	------	------

Replacement Soldering Heating Element	211-3925	5.33	5.01	4.79
---------------------------------------	----------	------	------	------

Replacement Desoldering Heating Element	211-3926	13.39	12.57	11.92
---	----------	-------	-------	-------

While Stock Lasts

SMD Rework Station



TENMA™

NEW

- Micro processor-controlled ESD safe unit
- Fast heating response
- Easy-to-adjust temperature and airflow control with digital display
- Built-in temperature sensor that aids in providing stable (temperature) measurements

- Built-in thermal protector
- Wide range of operating temperature and airflow level selection
- Integrated airflow gauge for precise airflow level adjustment
- Unique sleep mode with timer functionality
- Automatic cooling functionality for safety and added protection
- Compatibility with various types of air nozzles to meet different repairing requirements

Supply voltage 110V / 220V ac Air capacity 23l/min max.
Power consumption 500W Dimensions 188 x 127 x 244mm
Temperature range 100°C to 480°C Weight 3.8kg

Kit Contents: Station, Hot air gun holder, IC popper, UK and Euro power cord, Vacuum suction pen, 4 piece air nozzles and Instruction manual.

685396

Mfrs.

Price Each

Mfrs. List No.	Order Code	1+	5+	10+
SS-952BC-F	231-1402	169.00	159.00	149.00

Nozzles

NEW TENMA™

685399

	Mfrs. List No.	Dimensions		Order Code
		A	B	
General Purpose Nozzles				
	21-10160	2.5mm		206-2646
	21-10168	4.4mm		206-2650
SOP Packages (Dual)				
	21-10170	7.6mm	12.7mm	206-2651
	21-10172	11.7mm	21mm	206-2652
	21-10174	8mm	11.7mm	206-2654
	21-10176	4.8mm	10mm	206-2655
	21-10178	5.7mm	15mm	206-2656
	21-10180	7.2mm	16mm	206-2657
QFP Packages (Quad)				
	21-10162	10.2mm	10.2mm	206-2647
	21-10164	15.2mm	15.2mm	206-2648
	21-10166	28.2mm	28.2mm	206-2649

Mfrs.

Price Each

Mfrs. List No.	Order Code	1+	5+	+
21-10160	206-2646	2.85	2.77	--
21-10162	206-2647	5.56	5.41	--
21-10164	206-2648	5.56	5.41	--
21-10166	206-2649	12.52	12.14	--
21-10168	206-2650	2.85	2.77	--
21-10170	206-2651	2.85	2.77	--
21-10172	206-2652	15.35	14.90	--
21-10174	206-2654	13.87	13.46	--
21-10176	206-2655	13.87	13.46	--
21-10178	206-2656	13.87	13.46	--
21-10180	206-2657	13.87	13.46	--

Hot Air and Preheating Rework Station

TENMA™

NEW



- Quick Heating, up to 350°C only in 10 seconds
- Temperature sensor keeps the output temperature stable
- Optional cool flow can preheat and cool chip
- Working with AT reworking station to deal with BGA and chip IC

- Smart and Compact design and appearance, easy to carry
- Automatic temperature control, Can work continuously working for long hours, not affecting the function of the device and the temperature of panel won't exceed the standard temperature
- Available either with European or UK power cord

Supply Voltage	220V	Volume	0.18m³/min	685397
Power	540W	Output Voltage	170 x 55 x 140mm	
Temperature Range	+100°C to +350°C	Weight	1.1kg	
Mfrs.				
List No.	Order Code	1+	5+	10+
21-10135 UK	206-4552	36.00	31.00	29.00
21-10135 EU	206-2634	40.14	38.93	37.77
Replacement Heating Element				
CBB022791	211-3927	9.52	8.99	8.60

Soldering Tips

NEW

TENMA™

- Supplied in packs of 10

Mfrs. List No.		Tip Size	Tip Style	Order Code
21-10140		0.8mm	Chisel	206-2635
21-10142		1.2mm	Chisel	206-2636
21-10144		1.6mm	Chisel	206-2637
21-10146		2.4mm	Chisel	206-2638
21-10148		0.5mm	Conical	206-2639
21-10150		0.2mm	Conical	206-2640
21-10152		2mm	45° Chisel	206-2642
21-10154		3mm	45° Chisel	206-2643
21-10156		4mm	45° Chisel	206-2644
21-10158		0.2mm	Conical	206-2645

Mfrs. List No.	Order Code	1+	5+	+
21-10140	206-2635	21.90	19.90	--
21-10142	206-2636	21.90	19.90	--
21-10144	206-2637	21.90	19.90	--
21-10146	206-2638	21.90	19.90	--
21-10148	206-2639	21.90	19.90	--
21-10150	206-2640	21.90	19.90	--
21-10152	206-2642	21.90	19.90	--
21-10154	206-2643	21.90	19.90	--
21-10156	206-2644	21.90	19.90	--
21-10158	206-2645	21.90	19.90	--

Multicomp products offer high quality but at value for money to meet your engineering needs, our range includes Capacitors, Resistors, Potentiometers, Connectors, Semiconductors, and LED's, many products in our Passives range are now available in cut tape and full reel options.

For more information please visit uk.farnell.com/multicomp

Lead Free Alloy, Rosin Flux

New alloy: Tin (97.1%), Silver (2.6%), Copper (0.3%)



Alloy Melting Temperature Sn97.1Ag2.6Cu0.3 217°C - 224°C

- Lead free
- Contains one core of rosin based flux
- Amber coloured (rosin) residues do not require cleaning
- For all general purpose lead-free electronic assembly and re-work applications
- Complies with all lead-free legislative requirements

Tip Temperature (Approx.) 350°C

685423



multicomp

Weight	Wire Diameter	Order Code	Price Per Reel	
			1+	5+
250g Reels	0.5mm	101-5459	31.01	29.45
	0.7mm	101-5460	26.01	24.72
	1mm	101-5462	24.83	23.60
	1.2mm	101-5463	17.55	17.08
500g Reels	0.7mm	101-5464	51.23	48.66
	1mm	101-5465	47.90	45.50
	1.2mm	101-5466	34.59	33.68

Price Per Reel

1+ 5+

Lead-Free Alloy, High Activity Rosin Flux

New alloy: Tin (97.1%), Silver (2.6%), Copper (0.3%)



Lead Free Alloy, No-Clean Flux

New alloy: Tin (97.1%), Silver (2.6%), Copper (0.3%)



- Halide free flux formulation
- Contains 5 cores of flux
- Non-corrosive reliable flux residues
- Minimal clear residues do not require cleaning
- Complies with all lead-free legislative requirements

● Suitable for high reliability, lead-free, no-clean assembly, or rework of PCBs assembled in a lead-free no-clean process

Alloy Melting Temperature Sn97.1Ag2.6Cu0.3 217°C - 224°C



multicomp

- For all general purpose lead-free electronic assembly and re-work applications
- Complies with all lead-free legislative requirements

Alloy Sn97.1Ag2.6Cu0.3 Melting Temperature 217°C - 224°C
Flux Type Halide-activated rosin-based flux Tip Temperature (Approx.) 350°C - 370°C

685426

Weight	Wire Diameter	Order Code	Price Per Reel	
			1+	5+
250g Reels	0.5mm	101-5467	31.01	29.45
	0.7mm	101-5468	26.01	24.72
	1mm	101-5469	24.83	23.60
	1.2mm	101-5470	24.75	23.52
500g Reels	0.7mm	101-5471	51.23	48.66
	1mm	101-5472	48.86	46.40
	1.2mm	101-5474	48.75	46.30

Lead Free Alloy, Mildly Activated No-Clean Flux

New alloy: Tin (97.1%), Silver (2.6%), Copper (0.3%)



- Mildly activated no-clean flux formulation
- Contains 5 cores of flux
- Increased flux content (2.7% by weight) - low fuming and low spitting
- Minimal clear residues, do not require cleaning

● Complies with all lead-free legislative requirements

● Suitable for general lead-free, no-clean assembly, or rework of PCBs assembled in a lead-free no-clean process

Alloy Sn97.1Ag2.6Cu0.3 Melting Temperature 217°C - 224°C

Flux Type Mildly activated, no-clean Tip Temperature (Approx.) 350°C - 370°C

685425



multicomp

Lead Free Alloy, No-Clean Flux



- Halide free (Zero activation) flux formulation
- Low fuming and low spitting
- Minimal clear residues do not require cleaning
- Complies with all lead-free legislative requirements

● Suitable for high solderability, lead-free, no-clean assembly, or rework of PCBs assembled in a lead-free no-clean process or that have already been cleaned

Alloy 99.3% Tin, 0.7% Copper Melting Temperature 227°C Tip Temperature (Approx.) 350°C

685427

Weight	Wire Diameter	Order Code	Price Per Reel	
			1+	10+
250g Reels	0.5mm	507-1379	15.45	13.77
	0.7mm	507-1380	15.45	13.77
	0.9mm	507-1392	15.45	13.77
	1.2mm	507-1409	15.16	14.42
500g Reels	0.7mm	507-1422	20.37	18.95
	0.9mm	507-1434	19.48	17.36
	1.2mm	507-1446	19.00	16.93

INTELLIGENT ONLINE BUYING SYSTEM PROVIDING



Complete cost control, reduced administration time, visibility of your spend, flexibility and personalised to your company's needs.

farnell.com/ibuy

Lead-Free Alloy, High Activity Rosin Flux



- Contains multiple cores of rosin based flux
- Pale coloured residues do not require cleaning
- Extra wetting ability for faster soldering
- For all general purpose lead-free electronic assembly and re-work applications

- Complies with all lead-free legislative requirements

Alloy Lead Free, 99.3% Tin, 0.7% Copper Alloy
Flux Type Type 511, Rosin Based Melting Temperature 227°C
Tip Temperature (Approx.) 350°C - 370°C

685428

Weight	Wire Diameter	Order Code	Price Per Reel	
			1+	10+
250g Reels	0.5mm	509-0593●	15.45	13.77
	0.7mm	509-0600●	16.59	15.80
	0.9mm	509-0611●	15.25	14.47
	1.2mm	509-0623●	15.16	14.42
500g Reels	0.7mm	509-0647●	32.36	30.71
	0.9mm	509-0659●	29.65	28.14
	1.2mm	509-0660●	29.53	28.07

Lead Free Alloy, Mildly Activated No-Clean Flux



- Mildly activated no-clean flux formulation
- Increased flux content (3% by weight) - low fuming and low spitting
- Minimal clear residues no not require cleaning
- Complies with all lead-free legislative requirements

- Suitable for general lead-free, no-clean assembly, or rework of PCBs assembled in a lead-free no-clean process

Alloy Lead Free, 99.3% Tin, 0.7% Copper Alloy
Flux Type Type 505, Rosin Based Melting Temperature 227°C
Tip Temperature (Approx.) 350°C - 370°C

686017

Weight	Wire Diameter	Order Code	Price Per Reel	
			1+	10+
250g Reels	0.5mm	509-0672●	18.96	17.05
	0.7mm	509-0684●	16.59	15.80
	0.9mm	509-0696●	15.25	14.47
	1.2mm	509-0702●	15.16	14.42
500g Reels	0.7mm	509-0726●	32.36	30.71
	0.9mm	509-0738●	29.65	28.14
	1.2mm	509-0740●	29.53	28.07

Lead Free Alloy, Rosin Flux



- Lead free
- Contains multiple cores of rosin based flux
- Amber coloured (rosin) residues do not require cleaning
- For all general purpose lead-free electronic assembly and re-work applications
- Complies with all lead-free legislative requirements

Alloy Lead Free 99.3% Tin, 0.7% Copper Alloy
Melting Temperature 227°C Tip Temperature (Approx.) 350°C

686014

Weight	Wire Diameter	Order Code	Price Per Reel	
			1+	10+
250g Reels	0.5mm	507-1290●	15.45	13.87
	0.7mm	507-1306●	19.70	15.32
	0.9mm	507-1318●	18.96	17.05
	1.2mm	507-1320●	17.79	13.74
500g Reels	0.7mm	507-1343●	32.36	30.71
	0.9mm	507-1355●	29.65	28.14
	1.2mm	507-1367●	29.53	28.07



TROUBLESHOOTING TIPS

Chat online to one of our technical engineers at farnell.com

60/40 Alloy, No-Clean Flux



- Halide free (Zero activation) flux formulation
- Flux content 2.2% by weight - low fuming and low spitting
- Minimal clear residues do not require cleaning
- Suitable for general no-clean assembly, or rework of PCBs assembled in a no-clean process or that have already been cleaned

Alloy	Melting Temperature	Tip Temperature (Approx.)	308°C
60/40 Alloy	180°C		

60/40 Alloy, Mildly Activated No-Clean Flux



- Mildly activated (0.5%) flux formulation
- Flux content 3% by weight - low fuming and low spitting
- Minimal clear residues no not require cleaning
- Suitable for general assembly or rework of PCBs

Alloy	Melting Temperature	Tip Temperature (Approx.)	308°C
60, 40 Sn, Pb	180°C		

686016

Weight	Wire Diameter	Order Code	Price Per Reel	
			1+	10+
250g Reels	0.5mm	507-1215▲	15.13	14.01
	0.7mm	507-1227▲	8.60	7.85
	0.9mm	507-1239▲	12.91	11.98
	1.2mm	507-1264▲	27.22	23.84
500g Reels	0.7mm	507-1288▲	25.48	23.62
	1.2mm			

Quick Blow(F) Ceramic

MCF04C Series



- Complies with IEC 127, DIN41660 and BS4265
- UL Recognised

Voltage rating	250V	Breaking capacity	1500A @ 250V
Mfrs. List No.	MCF04C + Rating		

685430

Current Rating	Order Code	Price Each				
		10+	100+	500+	1K+	3K+
100mA	112-3145●	0.98	0.93	0.86	0.78	0.72
125mA	112-3147●	0.98	0.93	0.86	0.78	0.72
200mA	112-3150●	0.98	0.93	0.86	0.78	0.72
250mA	112-3151●	0.37	0.33	0.31	0.29	0.27
500mA	112-3158●	0.81	0.77	0.71	0.65	0.59
800mA	112-3162●	0.57	0.54	0.50	0.46	0.41
1A	112-3148	0.57	0.55	0.50	0.46	0.42
1.25A	112-3143●	0.35	0.27	0.26	0.24	0.23
2A	112-3152●	0.81	0.77	0.71	0.65	0.59
2.5A	112-3149●	0.81	0.77	0.71	0.65	0.59
3.15A	112-3153●	0.57	0.54	0.50	0.46	0.41
4A	112-3157●	0.57	0.54	0.50	0.46	0.41
5A	112-3159●	0.81	0.77	0.71	0.65	0.59
6.3A	112-3160●	0.57	0.54	0.50	0.46	0.41
8A	112-3163●	1.04	0.98	0.91	0.83	0.76
10A	112-3146●	0.80	0.75	0.70	0.63	0.58

Quick Blow (F) Glass

20 x 5mm Fuses MCF05G



- Complies with IEC127 Part 2 Sheet II, DIN41661 and BS4265
- UL Recognised

Mfrs. List No. MCF05G + Rating

Voltage rating (Vn)	250V ac	Breaking capacity	100mA to 31.5A = 35A @ 250V, 4A to 10A = 10 X In @ 250V
---------------------	---------	-------------------	---

Order Multiple=10		Price Each				
Current Rating	Order Code	10+	100+	500+	1K+	3K+
100mA	112-3167●	0.660	0.620	0.570	0.530	0.480
125mA	112-3169●	0.940	0.890	0.820	0.750	0.680
160mA	112-3170●	0.430	0.390	0.360	0.330	0.310
200mA	112-3173●	0.430	0.390	0.360	0.330	0.310
250mA	112-3174●	0.470	0.400	0.380	0.370	0.360
315mA	112-3177●	0.430	0.390	0.360	0.330	0.310
400mA	112-3179●	0.430	0.390	0.360	0.330	0.310
500mA	112-3182●	0.131	0.104	0.090	0.079	0.078
630mA	112-3185●	0.128	0.097	0.083	0.079	0.074
800mA	112-3186●	0.132	0.117	0.116	0.104	0.103
1A	112-3171●	0.135	0.123	0.113	0.104	0.097
1.25A	112-3164●	0.122	0.108	0.106	0.096	0.095
1.6A	112-3165●	0.193	0.176	0.161	0.149	0.138
2A	112-3175●	0.128	0.097	0.083	0.079	0.074
2.5A	112-3172●	0.135	0.123	0.113	0.104	0.097
3.15A	112-3176●	0.135	0.123	0.113	0.104	0.097
4A	112-3181●	0.193	0.176	0.161	0.149	0.138
5A	112-3183●	0.128	0.097	0.083	0.079	0.078
6.3A	112-3184●	0.131	0.116	0.115	0.103	0.102
8A	112-3187●	0.430	0.400	0.370	0.340	0.310
10A	112-3168●	0.430	0.400	0.370	0.340	0.310

Antisurge (T) Glass

20 x 5mm Fuses MCF06G Series



- Complies with IEC127, DIN41662, IEC 60127-2 and BS4265
- UL Recognised

Mfrs. List No. MCF06G + rating

Voltage rating 250V
Breaking capacity 32MA to 3.15A, 35A @ 250V, 4A to 6.3A 10 x IN @ 250V

Order Multiple=10		Price Each				
Current Rating	Order Code	10+	100+	500+	1K+	3K+
32mA	112-3202●	1.280	1.210	1.120	1.020	0.930
40mA	112-3204●	1.280	1.210	1.120	1.020	0.930
50mA	112-3207●	1.280	1.210	1.120	1.020	0.930
63mA	112-3213●	1.280	1.210	1.120	1.020	0.930
80mA	112-3215●	0.900	0.850	0.780	0.710	0.650
100mA	112-3190●	0.740	0.700	0.650	0.590	0.540
125mA	112-3193●	0.740	0.700	0.650	0.590	0.540
160mA	112-3194●	0.520	0.490	0.460	0.410	0.380
200mA	112-3197●	0.740	0.700	0.650	0.590	0.540
250mA	112-3198●	0.520	0.490	0.460	0.410	0.380
315mA	112-3201●	0.740	0.700	0.650	0.590	0.540
400mA	112-3203●	0.740	0.700	0.650	0.590	0.540
500mA	112-3206●	0.630	0.570	0.520	0.480	0.450
630mA	112-3212●	0.430	0.290	0.230	0.196	0.184
800mA	112-3214●	0.440	0.400	0.360	0.340	0.320
1A	112-3195●	0.630	0.570	0.520	0.480	0.450
1.25A	112-3188●	0.630	0.570	0.520	0.480	0.450
1.6A	112-3189●	0.630	0.570	0.520	0.480	0.450
2A	112-3199●	0.630	0.570	0.520	0.480	0.450
2.5A	112-3196●	0.600	0.540	0.490	0.460	0.430
3.15A	112-3200●	0.630	0.570	0.520	0.480	0.450
4A	112-3205●	0.630	0.570	0.520	0.480	0.450
5A	112-3209●	0.630	0.570	0.520	0.480	0.450
6.3A	112-3211●	0.330	0.290	0.280	0.270	0.260
10A	112-3192●	1.030	0.970	0.900	0.820	0.750

Semi-Enclosed

20 x 5mm PCB Mount



Moulded in black glass filled nylon with a small window which allows easy visual inspection of the fuse.

Rating 5A @ 250V
Operating temperature -40°C to +110°C

Mfrs. List No. MCHTC-100M
H=11.4, W=9.4, D=24.4,
F.C.=22.6 pins x 0.5 x 1.2

Order Multiple=10		Price Each				
Order Code		10+	50+	100+	500+	2K5+
976-120●		0.250	0.230	0.168	0.155	0.141

6.35 x 32mm (1/4 x 1 1/4") - Quick Blow (F) Glass



MCF01G Series



- Glass cartridge, nickel plated end caps
- To IEC 127
- Axially centred element

Breaking capacity @ 250V = 35A (500mA - 1A), 100A (2A - 3A), 200A (4A - 10A)

685434

Price Per Pack of 10

Rating	Mfrs. List No.	Order Code	1+	5+	10+	25+
500mA	CF06332F/500/10	187-1072●	1.30	1.17	1.03	0.98
1A	CF06332F/1/10	187-1073●	1.30	1.17	1.03	0.98
2A	CF06332F/2/10	187-1074●	1.30	1.17	1.03	0.98
3A	CF06332F/3/10	187-1075●	1.30	1.17	1.03	0.98
4A	CF06332F/4/10	187-1076●	1.58	1.43	1.26	1.19
5A	CF06332F/5/10	187-1077●	1.30	1.17	1.03	0.98
6A	CF06332F/6/10	187-1078●	1.30	1.17	1.03	0.98
10A	CF06332F/10/10	187-1081●	1.30	1.17	1.03	0.98

6.35 x 32mm (1/4 x 1 1/4") - Quick Blow (F) Ceramic



MCF07C Series



- Ceramic cartridge, nickel plated end caps
- To IEC 127
- Sand filled

Breaking capacity 1000A

685435

Price Per Pack 10

Rating	Mfrs. List No.	Order Code	1+	5+	10+	25+
500mA	CF06333CF/500/10	187-1060●	3.58	3.38	3.14	2.51
1A	CF06333CF/1/10	187-1061●	3.49	3.38	3.14	2.51
2A	CF06333CF/2/10	187-1062●	3.49	3.38	3.14	2.51
3A	CF06333CF/3/10	187-1063●	3.49	3.38	3.14	2.51
5A	CF06333CF/5/10	187-1064●	3.49	3.38	3.14	2.51
6A	CF06333CF/6/10	187-1065●	3.50	3.39	3.15	2.51
8A	CF06333CF/8/10	187-1066●	3.49	3.38	3.14	2.51
10A	CF06333CF/10/10	187-1068●	3.49	3.38	3.14	2.51
12A	CF06333CF/12/10	187-1069●	3.50	3.37	3.15	2.51
15A	CF06333CF/15/10	187-1070●	3.49	3.39	3.15	2.51
20A	CF06333CF/20/10	187-1071●	4.02	3.81	3.38	2.95

DS and DP Series



100mA @ 50V dc

BEST SELLER



- Gold plated contacts and terminals, single throw
- Suitable for most cleaning and soldering processes
- Choice of top actuators or 'piano key' actuators

It is recommended to solder switches in the 'off' factory supplied position

Dielectric strength 500V ac
Operating temperature -20°C to 70°C
Initial contact resistance 50mohm
Insulation resistance 100Mohm @ 500V dc

685436

Price Each

Top Actuated	Mfrs. List No.	Order Code	1+	50+	100+	500+	1K+
2	8.96	MCDS02	947-2126●	1.00	0.97	0.94	0.87
3	8.98	MCDS03	125-5223●	0.75	0.59	0.54	0.47
4	11.52	MCDS04	947-1570●	0.75	0.67	0.58	0.50
5	14.06	MCDS05	125-5225●	0.57	0.41	0.39	0.35
6	14.06	MCDS06	947-1588●	0.92	0.81	0.70	0.60
7	19.14	MCDS07	125-5226●	0.68	0.55	0.47	0.44
8	21.68	MCDS08	947-1596●	1.22	1.18	1.13	1.06
9	24.22	MCDS09	125-5227●	0.55	0.42	0.39	0.37
10	24.22	MCDS10	947-2134●	0.92	0.60	0.58	0.54
12	32.00	MCDS12	947-2142●	1.22	0.84	0.83	0.52

Side Actuated

2	6.44	MCDA02	125-5229●	0.45	0.43	0.42	0.38	0.37
4	11.72	MCDA04	947-1545●	0.89	0.83	0.80	0.76	0.75
6	16.8	MCDA06	947-1553●	1.01	0.90	0.86	0.82	0.80
8	21.88	MCDA08	947-1561●	1.16	1.07	1.03	0.98	0.92
10	26.76	MCDA10	125-5231●	0.69	0.64	0.62	0.58	0.57
12	31.84	MCDA12	125-5232●	1.25	1.15	1.09	1.05	1.01

Piano Key Actuated

No. of Ways	Mfrs. Length	Mfrs. List No.	Order Code	1+	50+	Price Each 100+	500+	1K+
Piano Key Actuated								
6	16.80	MCDP06	947-1618	1.00	0.97	0.91	0.80	0.76
8	21.87	MCDP08	947-1626	1.04	0.98	0.94	0.83	0.80
9	24.42	MCDP09	152-2007	0.78	0.74	0.71	0.68	0.66
10	26.96	MCDP10	125-5234	0.84	0.78	0.77	0.75	0.71
12	32.04	MCDP12	125-5235	1.21	0.48	0.46	0.45	0.44

Half Pitch

High or Low Profile



multicomp

Low Profile H=1.5, W=4.5, L=6.31 - 4 way
High Profile H=2.3, W=5.4, L=11.56
11.39 - 8 way

- Single pole single throw half pitch DIL switches
- Available in low or high profile
- Recessed Actuator
- UL recognised

Contacts Gold Plated over Nickel
Contact rating @ 24Vdc, @ 50Vdc
Operating temperature -20°C to 70°C
Dielectric Strength 300Vac 1 min.

Terminals Life expectancy 2000 ops.
Insulation resistance 100Mohm

It is recommended to solder switches in the 'off' factory supplied position

685437

No. of Mfrs.		Price Each				
Ways List No.	Order Code	1+	25+	50+	100+	500+
High Profile						
	MCHDS-08-T 947-2096	0.53	0.46	0.42	0.38	0.35
Low Profile - Without Tape						
2	MCDHN-02F-V 160-5473	0.89	0.82	0.74	0.68	0.62
4	MCDHN-04F-V 160-5474	0.96	0.88	0.79	0.75	0.69
6	MCDHN-06F-V 160-5475	0.99	0.89	0.80	0.76	0.70
8	MCDHN-08F-V 160-5476	2.31	2.09	2.00	1.91	1.79
10	MCDHN-10F-V 160-5477	1.03	0.96	0.84	0.79	0.73
Low Profile - Top Tape Sealed						
2	MCDHN-02F-T-V 160-5478	0.91	0.83	0.75	0.71	0.63
4	MCDHN-04F-T-V 160-5479	0.96	0.87	0.78	0.74	0.68
6	MCDHN-06F-T-V 160-5480	0.95	0.84	0.76	0.72	0.67
8	MCDHN-08F-T-V 160-5481	1.07	0.98	0.87	0.82	0.76
10	MCDHN-10F-T-V 160-5482	1.10	1.02	0.90	0.84	0.78

Miniature, Panel Mounting

5A@120V ac/28V dc, 2A@250V ac



- Silver plated copper contacts
- Solder tag connections
- UL Recognised

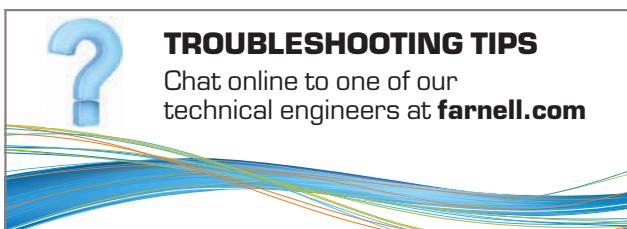
Electrical life 40000 ops.
Contact resistance <10mohm @ 4V, 100mA
Operating temperature -30°C to +85°C
Bush thread 14/4-40 UNNS-2A
Lever length 10.25mm
Panel cut out=6.35
H=12.7, W=6.9

685438

Mfrs.		Price Each			
Switch Function	List No.	Order Code	1+	100+	250+
SPDT On-On	1MS1T1B5M1QE	947-3378	1.24	1.07	0.95
SPDT On-Off-On	1MS3T1B5M1QE	947-3386	1.45	1.26	1.09
SPDT On-(On)	1MS2T1B5M1QE	155-0178	1.34	1.25	1.24
SPDT (On)-Off-(On)	1MS4T1B5M1QE	155-0179	1.34	1.25	1.24
SPDT On-Off-(On)	1MS5T1B5M1QE	155-0180	1.26	1.18	1.16
DPDT On-On	1MD1T1B5M1QE	947-3394	1.39	1.24	1.06
DPDT On-Off-On	1MD3T1B5M1QE	947-3408	1.54	1.36	1.18
DPDT On-On-On	1MD6T1B5M1QE	155-0185	2.00	1.71	1.49
3PDT On-On	1M3T1B5M1QE	155-0187	3.87	3.65	3.61
4PDT On-On	1M4T1B5M1QE	155-0192	4.74	4.13	4.03
4PDT On-Off-On	1M43T1B5M1QE	155-0194	3.91	3.37	2.98
4PDT On-On-On	1M46T1B5M1QE	155-0197	4.68	4.06	3.54

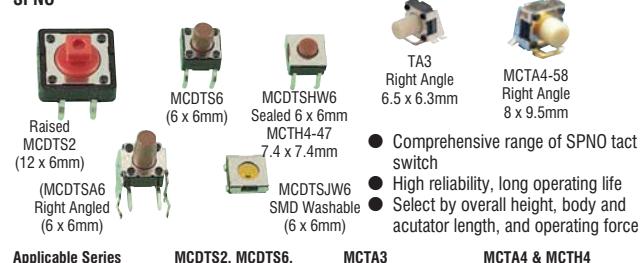
TROUBLESHOOTING TIPS

Chat online to one of our technical engineers at farnell.com



Tact Switches

SPNO



- Comprehensive range of SPNO tact switch
- High reliability, long operating life
- Select by overall height, body and actuator length, and operating force

Applicable Series	MCDTS2, MCDTS6, MCDTSHW6, MCDTSA6 & MCDTSJW6	MCTA3	MCTA4 & MCTH4
Voltage rating	12V dc	5VDC	50VDC
Current rating	50mA	1.5mA	50mA

685439

Order Multiple=5	Order Code	5+	50+	100+	250+	500+
------------------	------------	----	-----	------	------	------

Actuator style/Operating Force (N)						
MCDTS2 Series (12mm x 12mm) - PCB drilling 12.5mm x 5.0mm	947-1634	0.161	0.158	0.154	0.147	0.133
Raised/160	947-1642	0.250	0.230	0.210	0.196	0.190
Flat/160	947-1650	0.460	0.450	0.430	0.370	0.360
Raised/260	947-1669	0.460	0.450	0.430	0.370	0.360
Flat/260						

MCDTS6 Series (6mm x 6mm) - PCB drilling 6.5mm x 4.5mm

Overall height/Operating Force (N)						
4.3mm/100	947-1677	0.270	0.230	0.210	0.186	0.173
/160	947-1685	0.086	0.076	0.044	0.038	0.036
4.3mm/260	947-1693	0.460	0.390	0.360	0.320	0.300
/160	947-1707	0.074	0.063	0.046	0.042	0.038
5mm/260	947-1715	0.290	0.280	0.270	0.260	0.250
7mm/100	947-1723	0.182	0.161	0.134	0.123	0.117
7mm/160	947-1731	0.057	0.049	0.038	0.035	0.034
7mm/260	947-1740	0.460	0.380	0.330	0.290	0.260
9.5mm/100	947-1758	0.250	0.196	0.136	0.120	0.114
9.5mm/160	947-1766	0.210	0.200	0.196	0.182	0.174
9.5mm/260	947-1774	0.350	0.260	0.200	0.182	0.174

MCDTSHW6 Series (6mm x 6mm) Washable - PCB drilling 6.5mm x 4.0mm

3.8mm/160	947-1782	0.460	0.400	0.370	0.350	0.330
MCDTSA6 Series (6mm x 6mm) Right Angled - PCB drilling about C/L of actuator						

4.5mm & 7.0mm row separation 2.5mm

Overall length (Switch body & actuator)/Operating force (N)						
/100	947-1790	0.310	0.300	0.290	0.280	0.220
8.35mm/160	947-1804	0.310	0.300	0.290	0.280	0.220
8.35mm/260	947-1820	0.310	0.300	0.290	0.280	0.250
3.85mm/100	947-1839	0.310	0.300	0.290	0.280	0.230
3.85mm/160	947-1847	0.310	0.300	0.290	0.280	0.230
3.85mm/260	947-1855	0.310	0.300	0.290	0.280	0.220

MCDTSJW6 Series (6mm x 6mm) SMD Washable

Overall height/Operating force (N)						
2.3mm/160	947-1863	0.460	0.420	0.370	0.340	0.320
3.1mm/160	947-1871	0.460	0.410	0.370	0.330	0.310

Miniature, Panel Mounting

5A @ 28V dc or 125V dc, 2A @ 250Vac (Silver)

0.4VA @ 20V ac/dc (Gold)

Body Dimensions H W D						
Toggles	SPDT	12.7	11.43	10.54		
	DPDT	12.7	16.51	10.54		
	3PDT	12.7	21.59	10.54		
	4PDT	12.7	21.59	10.54		
Rocker/	SPDT	12.7	6.86	9.56		
Lever handle	DPDT	12.7	11.43	9.56		

Silver plated contacts: 5A @ 28V dc or 115V ac resistive load, 2A @ 250V ac

0.4VA @ 20V max. ac/dc

40000 operations

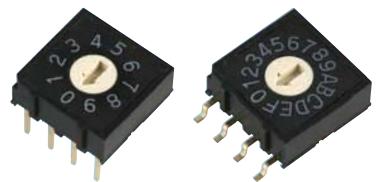
<10mohm @ 4Vdc 1A

1/4" x 40 NS

10.4

-30°C to +85°C

- Copper alloy contacts, gold or silver plated
- Epoxy sealed terminations
- UL Recognised



10mm x 10mm Rotary DIP Switches

25mA @ 24V dc



- Real codes DIP switching
- Available in either Through Hole or Surface Mount versions
- Flamability rating UL 94V-0

Switching Capacity 25mA @ 24V
Non-Switching Rating @ 50V 200mohm
Contact Resistance 100Mohm @ 250VDC

Ambient Temperature -25 to 80°C
Voltage Proof 250VAC for 1 minute
Life Expectancy 20000 steps min.

685441

No. of Ways	Pin Config.	Mfrs. List No.	Order Code	Price Each
1+				25+ 100+ 250+

Through Hole Mounting - Recessed Actuator

10	4 x 1	MCRH4AF-10R	152-2028	0.83	0.71	0.65	0.64
10	3 x 3	MCRH3AF-10R	152-2029	1.03	0.92	0.82	0.76
10	3 x 2	MCRH2AF-10R	152-2030	0.73	0.65	0.61	0.60
16	4 x 1	MCRH4AF-16R	152-2031	2.11	1.77	1.42	1.35
16	3 x 3	MCRH3AF-16R	152-2032	2.05	1.65	1.39	1.29
16	3 x 2	MCRH2AF-16R	152-2033	1.12	1.01	0.89	0.83

Through Hole Mounting - 3.2mm Actuator

10	3X2	MCRH2MAF-10R-V-B	NEW 208-2992	1.08	0.98	0.88	0.80
16	3X2	MCRH2MAF-16R-V-B	NEW 208-2993	1.08	0.98	0.88	0.80
10	3X3	MCRH3MAF-10R-V-B	NEW 208-2994	1.32	1.13	1.00	0.88
16	3X3	MCRH3MAF-16R-V-B	NEW 208-2995	1.08	0.98	0.88	0.80

Through Hole Mounting - 7.3mm Actuator

10	3X2	MCRH2HAF-10R-V-B	NEW 208-2985	1.09	1.00	0.89	0.81
16	3X2	MCRH2HAF-16R-V-B	NEW 208-2987	1.09	1.00	0.89	0.81
10	3X3	MCRH3HAF-10R-V-B	NEW 208-2988	1.36	1.16	1.02	0.90
16	3X3	MCRH3HAF-16R-V-B	NEW 208-2989	1.36	1.16	1.02	0.90
10	4X1	MCRH4HAF-10R-V-B	NEW 208-2990	0.56	0.54	0.53	0.51
16	4X1	MCRH4HAF-16R-V-B	NEW 208-2991	1.09	1.00	0.89	0.81

Surface Mount - Recessed Actuator

10	3 x 2	MCRM2AF-10R	152-2037	2.01	1.80	1.46	1.20
16	3 x 2	MCRM3AF-16R	152-2039	0.86	0.74	0.67	0.66
16	3 x 2	MCRM2AF-16R	152-2040	0.73	0.66	0.60	0.59

Surface Mount - 3.2mm Actuator

10	3X2	MCRM2MAF-10R-V-B	NEW 208-3004	0.57	0.55	0.53	0.52
16	3X2	MCRM2MAF-16R-V-B	NEW 208-3005	1.11	1.02	0.91	0.82
10	3X3	MCRM3MAF-10R-V-B	NEW 208-3006	1.38	1.18	1.03	0.91
16	3X3	MCRM3MAF-16R-V-B	NEW 208-3007	1.11	1.02	0.91	0.82

685440

No. of Pin WAYS Mfrs. List No. Order Code Price Each

1+ 25+ 100+ 250+

Surface Mount - 7.3mm Actuator

10	3X2	MCRM2HAF-10R-V-B	NEW 208-2996	0.58	0.56	0.54	0.53
16	3X2	MCRM2HAF-16R-V-B	NEW 208-2997	1.13	1.03	0.92	0.84
10	3X3	MCRM3HAF-10R-V-B	NEW 208-2999	1.40	1.20	1.05	0.94
16	3X3	MCRM3HAF-16R-V-B	NEW 208-3001	1.40	1.20	1.05	0.94
10	4X1	MCRM4HAF-10R-V-B	NEW 208-3002	0.58	0.56	0.54	0.53
16	4X1	MCRM4HAF-16R-V-B	NEW 208-3003	1.13	1.03	0.92	0.84

Through Hole Mounting - Right Angle Terminals

10	3X2	MCRV2AF-10R-V-B	NEW 208-3008	1.06	0.97	0.87	0.78
16	3X2	MCRV2AF-16R-V-B	NEW 208-3009	1.30	1.12	0.99	0.87
10	3X3	MCRV3AF-10R-V-B	NEW 208-3010	1.30	1.12	0.99	0.87
16	3X3	MCRV3AF-16R-V-B	NEW 208-3011	1.06	0.97	0.87	0.78
10	4X1	MCRV4AF-10R-V-B	NEW 208-3013	1.30	1.12	0.99	0.87
16	4X1	MCRV4AF-16R-V-B	NEW 208-3014	1.30	1.12	0.99	0.87

Through Hole Mounting - Kinked Pins

10	3X2	MCRS2AF-10R-V-B	NEW 208-3015	1.06	0.97	0.87	0.78
16	3X2	MCRS2AF-16R-V-B	NEW 208-3016	1.06	0.97	0.87	0.78
10	3X3	MCRS3AF-10R-V-B	NEW 208-3017	1.06	0.97	0.87	0.78
16	3X3	MCRS3AF-16R-V-B	NEW 208-3018	1.06	0.97	0.87	0.78
10	4X1	MCRS4AF-10R-V-B	NEW 208-3019	1.06	0.97	0.87	0.78
16	4X1	MCRS4AF-16R-V-B	NEW 208-3020	1.06	0.97	0.87	0.78

Bi-Metallic - Auto Reset



BEST SELLER

Normally closed (opening on temperature rise) and normally open (closing on temperature rise) types are available. All switches reset when the temperature falls to the reset level.

- Automatically re-setting thermal switches
- Snap-action bi-metallic SPST contacts
- Contacts are isolated from the mounting base
- Reset level is specified to within a close tolerance band
- Indication of switch temperature is given on base of switch

Contact rating (all types)
250V ac, 15A 125Vac (100,000 cycles)
Material - Body Phenolic (Style A), Thermoplastic (Style B)
Material - Base Aluminum
Material - Mounting flange Stainless steel (Style A), Aluminum (Style B)
Connections 1/4" (6.3 x 0.8mm) terminals

685602

Operating Temp. Resetting Temp. Case Price Each

Temp. Temp. Style Mfrs. List No. Order Code 1+ 50+ 100+

Normally Closed Types

15°C	5°C	A	A 15 03EN 175	732-400	3.01	2.76	2.32
20°C	10°C	A	03EN15T044(20/10)	732-412	3.01	2.76	2.32
30°C	20°C	A	03EN15T044(30/20)	606-686	3.01	2.76	2.32
40°C	A		03EN15T044(40/25)	491-445	2.47	2.22	1.80
50°C	B	T23A050ASR2-15		100-6842	2.55	2.26	1.80
70°C	B	T23A070ASR2-15		100-6843	2.55	2.26	1.80
90°C	70°C	B	T23A090ASR2-20	100-6844	2.55	2.26	1.80
100°C	85°C	B	T23A100ASR2-15	100-6845	2.43	2.15	1.71
112°C	97°C	B	T23A112ASR2-15	100-6846	2.55	2.26	1.80
125°C	110°C	B	T23A125BSR2-15	100-6847	2.55	2.26	1.80
150°C	135°C	B	T23A150BSR2-15	100-6849	2.55	2.26	1.80

Normally Open Types

30°C	20°C	A	03EN35T044(20/30)	732-424	2.66	2.34	1.92
40°C	25°C	A	03EN35T044(25/40)	491-524	2.66	2.34	1.92
60°C	45°C	A	T23B060ASR2-15	100-6852	2.55	2.26	1.80
50°C	35°C	A	T23B050ASR2-15	100-6851	2.55	2.26	1.80
70°C	A		T23B070ASR2-15	100-6853	2.55	2.26	1.80
90°C	70°C	A	T23B090ASR2-20	100-6854	2.43	2.15	1.71

Standard

Standard switch: 79.5 x 19.3 x 9.8,

Standard actuator: 38.1 x 25.4 x 9.8,

Miniature switch: 38.3 x 12.7 x 7.7,

Miniature actuator: 38.3 x 12.7 x 7.7,

Fixing centres=50 (slots 14 x 4.7)

Fixing centres=28 (slots 14 x 4.7)

Fixing centres=25 (hole dia 3.1)

Fixing centres=25 (hole dia 3.1)

Magnetically operated reed proximity switches encapsulated in pressure die castings with a blue powder coated finish

Solid construction gives protection in harsh environments, IP64 rating

Suitable for many applications with resistive loads

Intruder alarm and limit switch, micro-switch and proximity switch applications

Normally open or changeover contacts available

Connection is by integral PVC cable, 0.5m for miniature and 0.7m length for standard switches.



Reed, Metal Housing



Standard

Fixing centres=50 (slots 14 x 4.7)

Fixing centres=28 (slots 14 x 4.7)

Fixing centres=25 (hole dia 3.1)

Fixing centres=25 (hole dia 3.1)

Magnetically operated reed proximity switches encapsulated in pressure die castings with a blue powder coated finish

Solid construction gives protection in harsh environments, IP64 rating

Suitable for many applications with resistive loads

Intruder alarm and limit switch, micro-switch and proximity switch applications

Normally open or changeover contacts available

Connection is by integral PVC cable, 0.5m for miniature and 0.7m length for standard switches.

Size Switches	Contact Form (earthed*)	Max dc Contact Ratings			Order Code
		V	V.A.	A	
Miniature	SPNO	220	15		170-838
Miniature	SPCO	175	3		170-839
Standard	SPNO*	250	100		170-842
Standard	SPCO*	250	50		170-841
Order Code	Used with Order Code	Distance - face to face		Max. (mm)	
170-840		Min. (mm)			
		7		13	
170-843		170-839	5	13	
		170-842	13	22	
		170-841	13	25	

685442

Type Switches	Order Code	Price Each		
		1+	10+	25+
Miniature SPNO	170-838	8.59	6.88	6.34
Miniature SPCO	170-839	13.76	11.19	10.28
Standard SPNO	170-842	8.70	7.41	6.67
Standard SPCO	170-841	14.58	12.77	12.40

Magnets

Miniature	170-840	4.60	3.73	3.48
Standard	170-843	4.64	4.16	3.97

Vertical Float

Magnetic Level Sensor

- The world's smallest magnetic Level Sensor
- Ruthenium (Ru) contact material
- Operating temperature -20°C to +80°C
- Polypropylene case, float and nut
- Suitable for use in water and/or dilute acids
- Designed for applications such as coffee machines, tank level control and water dispensers

155-5936 155-5937 155-5938 177-5048 177-5049 177-5050 177-5051

Contact style	Form A	Form A	Form A	Form A	Form B	Form A	Form A
Travel - Float	3.5mm	8.5mm	18.5mm	5.5mm	8.5mm	8.5mm	18.5mm
Switching current	0.7A	1.5A	1.5A	0.7A	1.5A	1A	1A
Carry current							
Contact power rating	10VA	50VA	50VA	10VA	50VA	10VA	10VA
Switching voltage (Max.) dc	180V	200V	200V	180V	200V	200V	200V
Switching voltage (Max.) ac	130V	250V	250V	130V	250V	140V	140V

685443

Price Each

Mfrs. List No.	Order Code	1+	5+	10+	25+
MCPLS-020-A-3	155-5936●	4.42	4.02	3.86	3.83
MCPLS-031-A-6	155-5937●	4.42	4.03	3.84	3.83
MCPLS-041-A-6	155-5938●	4.42	4.03	3.84	3.83
MCPLS-020-B-3	177-5048●	4.64	4.26	4.09	3.76
MCPLS-031-B-6	177-5049●	5.00	4.53	4.36	3.97
MCPLS-031-A-3	177-5050●	4.31	3.87	3.76	3.43
MCPLS-041-A-3	177-5051●	4.48	4.09	3.92	3.59

Miniature Pressure Switches

25.4mm Square Body

PSF100A Body - H = 9.2mm



PSF102 Body - H = 7.9mm

- External (PSF100A Series) or Recessed (PSF102 Series) Quick Connect terminals
- Miniature size
- Quick response time
- Dependable long life

Case Material	Polycarbonate
Material	Polyurethane Diaphragm ★
★ 173-4671 has	PTFE
Switch Type	Off-On - 1NO
Contact Rating - Current	40mA - 30V ac/dc - Resistive Load
Operating Temperature	+4.5°C to +65.5°C (40°F to 150°F)
Switching Medium	Air, compatible fluids on "High" side
Porting	Two - 0.2" Diameter barbed ports for use with 3/16" ID Tubing

685444

Price Each

Set Point	Mfrs. List No.	Order Code	1+	10+	25+	50+
PSF100A Series - Patented shock and vibration resistant						
0.004 - 0.018psi	PSF100A-0.5	173-4664●	19.95	18.62	17.12	16.47
0.054psi	PSF100A-1.5	173-4665●	19.95	18.62	17.12	16.47
0.108psi	PSF100A-3.0	173-4666●	19.95	18.62	17.12	16.47
0.217psi	PSF100A-6.0	173-4667●	14.02	13.60	13.20	12.82
0.361psi	PSF100A-10.0	173-4668●	17.39	16.72	15.51	14.97
0.541psi	PSF100A-15.0	173-4669●	11.92	11.57	11.23	10.92
1.804psi	PSF100A-50.0	173-4670●	14.02	13.60	13.20	12.60

Set Point	Mfrs. List No.	Order Code	Price Each			
			1+	10+	25+	50+
PSF 102 Series - Field adjustable set point						
0.004 - 0.018psi	PSF102-7652-710	173-4671●	15.10	13.76	12.90	12.38
0.018 - 0.072psi	PSF102-7651-711	173-4673●	15.10	13.76	12.90	12.38
0.072 - 0.541psi	PSF102-7651-712	173-4674●	15.10	13.76	12.90	12.38
0.541 - 2.17psi	PSF102-7651-713	173-4675●	13.65	12.84	12.11	11.68
2.17 - 3.6psi	PSF102-7651-723	173-4676●	13.45	12.61	11.87	11.42
3.6 - 25psi	PSF102-7651-714	173-4677●	10.55	9.67	8.93	8.29

Position Sensors

**Linear MagnetoPots**

Rectilinear

- Contactless Linear Sensor
- IP64 Debris Proof, Splash Proof
- Ideal for Hydraulic and Pneumatic Position Sensing
- Liquid Level Capability
- Requires MAGNET
- Life Cycle is >1 million



Rotary

The MagnetoPot is simple, yet elegant in its ability to track motion in a contactless manner. A magnet on the inside of a cylinder, or a magnet on the opposing side of a motion device will guide the built-in magnetics of the MagnetoPot for position location through a potentiometric output.

The MagnetoPot is a sealed potentiometer, in the membrane potentiometer tradition, yet it does not require a wiper/actuator to connect the collector and the resistor. Instead, the MagnetoPot is controlled by an outside magnet, which attracts the magnetic forces within the MagnetoPot to connect to the linear resistor and give linear potentiometer feedback. The wiper inside the sealed pot is magnetic or ferromagnetic, and will only perform if connected with an exterior magnet.

As opposed to a magnetically-based Reed Switch, which gives simply open or close signals, the MagnetoPot gives the full linear travel of a hydraulic or pneumatic cylinder.

In liquid level applications, the MagnetoPot can attach to the outside of a liquid tank and give position of the magnet inside the float. No water ingress, no wearing of the part by environment, because the MagnetoPot is outside of the tank.

The MagnetoPot is made of polyester, fiberglass and kapton, depending on the specification. It functions as a voltage divider, a resistor or rheostat, as desired by the end-user. By bringing the exterior magnet into a proximity necessary to connect with the internal magnetic attractors, the operator can obtain linear position sensing based on the location of the exterior magnet. As the exterior magnet moves, so does the electrical output of the MagnetoPot.

N.B. The MagnetoPot should not be mounted to a ferromagnetic surface.

685445

Active	Length	Mfrs. List No.	Order Code	Price Each			
				1+	5+	10+	25+
Rectilinear							
25mm	MP1-L-0025-103-5% ST	181-8274●	15.81	15.40	15.02	14.65	
50mm	MP1-L-0050-103-5% ST	181-8275●	34.15	31.75	29.64	27.23	
100mm	MP1-L-0100-103-5% ST	181-8276●	24.87	24.12	23.42	22.75	
150mm	MP1-L-0150-103-5% ST	181-8277●	39.12	36.31	33.82	31.13	
300mm	MP1-L-0300-103-5% ST	181-8278●	30.33	29.28	28.30	27.38	
500mm	MP1-L-0500-103-5% ST	181-8279●	42.81	39.25	36.22	33.64	

Rotary

Center of Active of Track

45.57mm MP1-R-0046-353-103-5% ST	181-8280●	37.36	34.75	32.43	29.71
----------------------------------	-----------	-------	-------	-------	-------

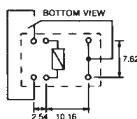
Bi-Metallic, Manual Reset																					
SPC multicomp																					
<ul style="list-style-type: none"> ● Snap-action bi-metallic SPST contacts are isolated from the mounting base ● Horizontal tab connections allow easy access to reset pin ● UL Recognised and CSA approved 																					
The switches are normally closed and open on temperature rise, then remain open until manually reset. Connection is by 6.3 x 0.8 (1/4") spade terminals.																					
<table border="1"> <tbody> <tr> <td>Contact rating</td> <td>250Vac (10,000 cycles), 15A 120Vac (6,000 cycles)</td> </tr> <tr> <td>Contact material</td> <td>Silver alloy</td> </tr> <tr> <td>Operating Temp.</td> <td>Mfrs. List No.</td> </tr> <tr> <td>45°C ±4°C</td> <td>05EN1034(45/M)</td> </tr> <tr> <td>55°C ±4°C</td> <td>05N1034(55/M)</td> </tr> <tr> <td>65°C ±4°C</td> <td>05EN1034(65/M)</td> </tr> <tr> <td>80°C ±5°C</td> <td>05EN1034(80/M)</td> </tr> <tr> <td>90°C ±5°C</td> <td>05EN1034(90/M)</td> </tr> </tbody> </table>						Contact rating	250Vac (10,000 cycles), 15A 120Vac (6,000 cycles)	Contact material	Silver alloy	Operating Temp.	Mfrs. List No.	45°C ±4°C	05EN1034(45/M)	55°C ±4°C	05N1034(55/M)	65°C ±4°C	05EN1034(65/M)	80°C ±5°C	05EN1034(80/M)	90°C ±5°C	05EN1034(90/M)
Contact rating	250Vac (10,000 cycles), 15A 120Vac (6,000 cycles)																				
Contact material	Silver alloy																				
Operating Temp.	Mfrs. List No.																				
45°C ±4°C	05EN1034(45/M)																				
55°C ±4°C	05N1034(55/M)																				
65°C ±4°C	05EN1034(65/M)																				
80°C ±5°C	05EN1034(80/M)																				
90°C ±5°C	05EN1034(90/M)																				

Price Each					
Order Code	1+	10+	25+	100+	250+
All Order Codes	3.63	3.48	3.40	3.28	3.05

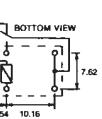
Subminiature High Sensitivity - MCS1H Series

multicomp

BEST SELLER

D=10.5, W=15.5,
H=11.8mm

MCS1HS



MCS1KHS

- Low profile
- High coil sensitivity

- Fully sealed
- UL Recognised

Contact arrangement	SPCO	Coil consumption	200mW
Contact rating	1A @ 24V dc/120V ac	Release	5ms
Contact material		Temperature range	-25°C to +55°C
Dielectric strength	1000V ac (coil-contact)		-25°C to +55°C

685447

COIL	Order	Price Each						
Volts	Ω	Code	1+	25+	50+	100+	250+	500+

SPCO - MCS1H-S Series

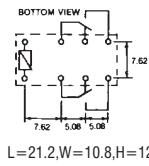
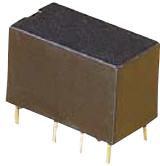
5V dc	120	948-0269	1.170	1.160	1.150	1.140	1.130	1.120
12V dc	700	948-0277	1.200	1.050	1.040	0.920	0.830	0.693
24V dc	2.8k	948-0285	1.320	1.120	1.090	0.960	0.850	0.721

SPCO - MCS1KH-S Series

5V dc	125	948-0293	2.150	1.830	1.390	1.100	0.470	0.430
12V dc	720	948-0307	2.150	1.830	1.390	1.100	0.470	0.430
24V dc	2.8k	948-0315	2.060	1.750	1.320	1.060	0.450	0.410

Subminiature - High Sensitivity

multicomp



L=21.2, W=10.8, H=12

- Low profile
- Fully sealed
- Sensitive coil - 200mW
- UL Recognised

Contact arrangement

DPDT

Contact rating 2A @ 24V dc/120V ac

Coil consumption 200mW

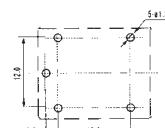
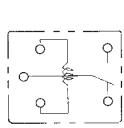
Temperature range -25°C to 70°C

685448

COIL	Order	Price Each						
Volts	Ω	Code	1+	25+	50+	100+	250+	500+
5V dc	50	948-0196	1.160	1.130	1.120	1.110	1.100	1.071
9V dc	405	948-0200	2.180	2.170	2.160	2.150	2.140	2.128
12V dc	720	948-0218	1.380	1.370	1.360	1.350	1.340	1.330
24V dc	2.8k	948-0226	1.380	1.370	1.360	1.350	1.340	1.330

5A/10A Vertical - MCHRS4 Series

multicomp

MCHRS4
H=15.8, W=15.5,
D=19.0MCHRS4E
H=17.0, W=15.5,
D=21.5

- SPCO contacts
- Sealed to allow washing after flow soldering

Contact rating

MCHRS4 Series

MCHRS4FH Series

Operate/release time

8ms/5ms

10ms/5ms

685449

COIL	Order	Price Each				
Volts	Ω	Code	1+	20+	100+	250+

SPCO, 5A - MCHRS4 Series

5V dc	50	948-0102	1.46	1.19	0.91	0.71
12V dc	320	948-0110	1.05	0.87	0.66	0.52
24V dc	820	948-0129	1.72	1.39	1.06	0.83

SPCO, 10A - MCHRS4FH Series

5V dc	70	169-5972	1.49	1.25	1.07	0.86
12V dc	400	169-5973	1.49	1.46	1.43	1.41
24V dc	1600	169-5974	1.49	1.46	1.43	1.41

5A/10A/16A Vertical - MCHRM Series

multicomp



Contact arrangement

SPST/SPDT/DPST

SPST: 10A @ 250VAC/30VDC

SPDT: 16A @ 250VAC/30VDC

DPST: 5A @ 250VAC/30VDC

1500VAC, 1min between open contacts

2500VAC, 1min between coil and contacts

15ms/4ms Max

Operate/Release

15ms/8ms Max

SPST, SPDT or DPST contacts

Sealed to allow washing after flow soldering

685450

COIL	Order	Price Each					
Volts	Ω	Code	1+	20+	100+	250+	500+

SPST - Standard - 720mW - MCHRM Series

5V dc	36	948-0021	1.36	1.17	1.06	0.94	0.79
9V dc	115	948-0030	1.40	1.22	1.05	0.95	0.82
12V dc	200	948-0048	2.16	1.87	1.68	1.46	1.26
24V dc	820	948-0056	1.75	1.68	1.44	1.43	1.41

SPST - High Sensitivity - 250mW - MCHRM Series

5V dc	100	NEW 188-5597	1.11	1.01	0.90	0.82	0.69
12V dc	576	NEW 188-5598	1.11	1.01	0.90	0.82	0.69
24V dc	2.304k	NEW 188-5599	1.20	1.09	0.98	0.89	0.75

SPDT - Standard - 720mW - MCHRM2 Series

5V dc	36	948-0064	2.01	2.00	1.99	1.97	1.96
9V dc	115	948-0072	0.59	0.54	0.50	0.46	0.43
12V dc	200	948-0080	1.63	1.58	1.53	1.51	1.48
24V dc	820	948-0099	1.67	1.50	1.49	1.48	1.46

SPDT - High Sensitivity - 540mW - MCHRM2 Series

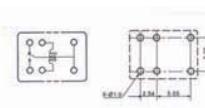
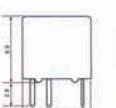
12V dc	267	NEW 188-5594	1.20	1.16	1.14	1.13	1.12
24V dc	1.067k	NEW 188-5596	1.49	1.36	1.22	1.10	0.93

DPST - Standard - 720mW - MCHRM1 Series

5V dc	36	947-9937	2.87	2.57	2.25	2.07	1.89
9V dc	115	947-9945	0.68	0.62	0.57	0.53	0.50
12V dc	200	947-9953	2.60	2.36	2.02	1.88	1.71
24V dc	820	947-9961	2.49	2.20	1.94	1.81	1.64

Subminiature - HRA Series

multicomp



- SPCO Series of relays
- Plastic sealed (washable)
- Small size & light weight
- DIL pitch terminal

Contact arrangement

SPCO

Life Elect.

100,000 operations

Voltage Switching Max. 30Vdc/120Vac

Life Mech.

10,000,000 Operations

Contact material

Gold / Silver

Resistance Insulation

500VAC 1min between open contacts

Current Switching Max. 2.0A

Strength Dielectric

1,000V ac 1min, contacts to coil

Resistance Contact

50mohm

Temperature range

-25°C to 70°C

Operate/Release

6ms Max./4ms Max

Coil Voltage

Coil Resistance

Coil Operate Voltage

Coil Release Voltage

Coil Power Consumption (mW)

Order Code	(V dc)	(Ω's)	Voltage	Voltage	Consumption (mW)
948-0137	5	55	3.5V dc	0.25V dc	450
948-0145	12	320	8.4V dc	0.60V dc	450
948-0153	24	1.28	16.8V dc	1.20V dc	450
948-0161	5	75	3.5V dc	0.25V dc	330
948-0170	12	440	8.4V dc	0.60V dc	

DIN Rail/Surface Mount

Screw Terminals



Rated Voltage	300V ac	Insulation Voltage	≥3kV	
Rated Current	10A	Material - Base	Flame Retardant PA66	685452

Mfrs.	Order Code	1+	25+	50+	100+	250+
-------	------------	----	-----	-----	------	------

Clip Attachment

8 Pin	MCCDSA-08	163-8152●	0.96	0.87	0.78	0.71	0.60
11 Pin	MCCDSA-11	163-8153●	1.20	1.10	0.98	0.89	0.75

Spring Attachment

8 Pin	MCCDSB-08	163-8155●	1.24	1.11	1.01	0.93	0.85
11 Pin	MCCDSB-11	163-8156●	3.12	2.72	2.42	2.17	2.04

AC Fans

Axial



- Low cost, high performance fans
- Overload protected using impedance protection
- Fitted with sleeve (SB) or ball (BB) bearings
- UL94V-0 Rated plastic impellers
- Supplied with wire lead connections

Approved to CSA, UL Recognised

Dimensions (mm)	Voltage	Power	Air Flow	Noise	Bearing	Mfrs.	Order
H	V ac	Watts	Lt/Sec dB(A)	Type	RPM	List No.	Code
80mm x 80mm x 25mm	115	11	37	34	Ball	2450	SF11580AT/1082HBL.GN
80mm x 80mm x 25mm	230	14	37	34	Ball	2450	SF23080AT/2082HBL.GN
80mm x 80mm x 38mm	115	14	40.8	32	Ball	2400	MCSF11580A/1083HBL.GN
80mm x 80mm x 38mm	115	12	51	35	Sleeve	2450	SF11580A/1083HSL.GN
80mm x 80mm x 38mm	230	18	39.08	35	Sleeve	2300	SF23080A/2083HSL.GN
92mm x 92mm x 25mm	115	12	63	40	Ball	2350	SF11592A/1092HBL.GN
92mm x 92mm x 25mm	230	14	63	40	Ball	2350	SF23092A/2092HBL.GN
92mm x 92mm x 25mm	115	7	39	31	Ball	1800	MCSF11592A/1092MBL.GN
92mm x 92mm x 25mm	240	14	59.5	38	Ball	2700	MCSF23092A/2092MBL.GN
119mm x 119mm x 25mm	230	18	133	46	Ball	2150	DP201AT/2122HBL.GN
119mm x 119mm x 38mm	115	18	178	48	Sleeve	2150	SP101A/1123HSL.GN
119mm x 119mm x 38mm	230	11	129	38	Sleeve	2150	DP203A/2123LSL.GN
119mm x 119mm x 38mm	230	20	178.4	48	Sleeve	2550	DP201A/2123HSL.GN
120mm x 120mm x 25mm	115	12.5	79.9	37	Ball	1700	MCSPI103AT/1122LBL.GN
120mm x 120mm x 25mm	240	13	91.75	40	Ball	1900	MCDP203AT/2122LBL.GN
120mm x 120mm x 38mm	115	11	132.5	39	Ball	2300	MCSPI103A/1123LBL.GN
120mm x 120mm x 38mm	115	20	147.8	45	Ball	2750	MCSPI101A/1123HBL.GN
120mm x 120mm x 38mm	240	10	122.3	37	Ball	2150	MCDP203A/2123LBL.GN
120mm x 120mm x 38mm	240	20	147.8	45	Ball	2750	MCDP201A/2123HBL.GN

Multicomp

multicomp

Mfrs.

Mfrs.	Order Code	1+	10+	25+	50+	100+
-------	------------	----	-----	-----	-----	------

SF11580AT/1082HBL.GN	960-6530●	22.70	20.58	19.36	17.21	15.91
SF23080AT/2082HBL.GN	960-6548●	8.08	6.57	5.87	5.21	4.82
MCSF11580A/1083HBL.GN	156-8419●	11.15	7.82	7.13	6.85	6.57
SF11580A/1083HSL.GN	960-6599●	24.87	22.58	21.34	18.99	17.56
SF23080A/2083HSL.GN	960-6238●	28.18	26.39	25.03	23.72	22.37
SF11592A/1092HBL.GN	960-6556●	9.35	8.55	7.17	6.56	6.06
SF23092A/2092HBL.GN	960-6564●	10.40	9.47	6.46	6.10	5.69
MCSF11592A/1092MBL.GN	156-8420●	7.33	7.04	6.77	6.51	6.40
MCSF23092A/2092MBL.GN	156-8421●	13.58	12.65	12.03	11.42	11.06
DP201AT/2122HBL.GN	960-6580●	8.92	8.15	7.38	6.60	6.19
SP101A/1123HSL.GN	960-6629●	6.41	5.94	5.50	5.22	4.81
DP203A/2123LSL.GN	960-6610●	20.54	18.62	17.62	15.51	14.74
DP201A/2123HSL.GN	960-6637●	8.98	7.05	6.65	6.41	5.89
MCSPI103AT/1122LBL.GN	156-8422●	12.06	8.02	7.29	7.07	6.85
MCDP203AT/2122LBL.GN	156-8423●	10.75	8.08	7.34	6.88	6.75
MCSPI103A/1123LBL.GN	156-8424●	12.52	8.76	7.81	7.57	7.34
MCSPI101A/1123HBL.GN	156-8426●	12.52	8.76	7.81	7.57	7.34
MCDP203A/2123LBL.GN	156-8427●	12.06	10.76	7.08	6.86	6.64
MCDP201A/2123HBL.GN	156-8428●	14.66	13.65	12.97	12.35	11.95

Multicomp

multicomp

Axial Fan

DC Voltage



- Plastic housing
- Plastic impeller
- Inflammable UL 94V-0
- 300mm Lead wire connections
- Operating temperature from -10°C to +70°C
- Locked rotor protection

farnell.com

element14.com

multicomp

Dimensions (mm)	Voltage	Power	Air Flow	Noise	Bearing	Mfrs.	List No.	Order Code
H	V dc	W	D	cu ft/min	dBA@1m	Type		
80	80	25	24	1.4	37	Vapo	MC35346	182-6902
92	92	25	12	1.6	45	Vapo	MC35347	182-6903
60	60	15	12	1.92	25.2	Vapo	MC35349	182-6904
80	80	25	12	1.7	41	Vapo	MC35350	182-6905
80	80	25	12	1.1	33	Vapo	MC35351	182-6907
92	92	25	12	1.3	39.5	Vapo	MC35352	182-6908
80	80	25	24	1.8	41	Vapo	MC35353	182-6909
92	92	25	24	1.3	39.5	Vapo	MC35354	182-6910
50	50	10	12	1.32	13.8	Vapo	MC35356	182-6912
50	50	15	12	1.74	18.6	Vapo	MC35357	182-6913
92	92	25	24	1.6	1.274	Vapo	MC35348	182-6914

685454

Voltage	Dimensions (mm)	Price Each							
V dc	H W D	Order Code	1+	10+	25+	50+	100+		
12	50	50	15	182-6913●	6.08	5.53	5.27	4.66	4.42
12	60	60	15	182-6904●	8.37	7.61	7.29	6.44	6.12
12	80	80	25	182-6908●	7.44	6.76	6.47	5.71	5.41
12	80	80	25	182-6905●	7.81	7.10	6.80	6.00	5.57
12	92	92	25	182-6909●	7.59	6.90	6.60	5.83	5.54
24	80	80	25	182-6902●	8.91	8.11	7.75	6.85	6.50
24	80	80	25	182-6910●	8.91	8.11	7.75	6.85	6.50
24	92	92	25	182-6911●	8.91	8.11	7.75	6.85	6.37
24	92	92	25	182-6914●	10.43	9.48	9.07	7.68	6.69

multicomp

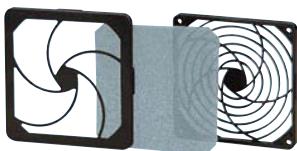
multicomp

Dimensions	Voltage	Power	Air Flow	Noise	Bearing	Mfrs.	List No.	Order Code
H	V dc	W	D	cu ft/min	dBA@1m	Type		
40	40	10	5	0.9	7	27	Vapo	MC36256
40	40	10	12	1.08	8	32	Vapo	MC36257
40	40	20	5	0.7	7.7	21	Sleeve	MC36258
50	50	10	5	1.23	11	26	Sleeve	MC36260
50	50	10	12	1.44	11	26	Sleeve	MC36261
120	120	25	12	5.4	108.2	44.5	Ball	MCEE0251B2-0000-A99
120	120	25	24	3.5	93	40.5	Vapo	MC36276
120	120	38	12	9.6	138	48	Sleeve	MC36277
120	120	38	24	5.2	116	44	Sleeve	MC36280

685455

Voltage	Dimensions	Price Each							
V dc	H W D	Order Code	1+	10+	25+	50+	100+		
5	40	40	10	192-4855●	4.17	3.73	3.35	3.00	2.74
12	40	40	20	192-4856●	3.83	3.42	3.10	2.73	2.53
5	40	50	10	192-4857●	5.43	4.85	4.39	3.89	3.58
12	50	50	10	192-4858●	4.34	3.85	3.48	3.10	2.83
12	120	120	25						

Filter Assemblies



- Assemblies consist of guard, polyurethane foam filter, and media retainer
- Manufactured from UL94-V0 high impact plastic
- UL Recognised

685457

Fan Size	Mfrs.	List No.	Order Code	Price Each/Per Pack				
				1+	10+	25+	50+	100+
Filter Assemblies								
40mm	MCSC40-P15/45	178-1166●	2.70	2.47	2.34	2.07	1.98	
60mm	MCSC60-P15/45	178-1167●	2.46	2.24	2.12	1.91	1.79	
80mm	MCSC80-P15/45	178-1168●	2.03	1.84	1.75	1.55	1.50	
92mm	MCSC92-P15/45	178-1171●	2.25	2.07	1.96	1.74	1.68	
120mm	MCSC120-P15/45	178-1172●	2.44	2.20	2.09	1.86	1.81	
150mm	MC09650-F45	162-9431●	0.91	0.88	0.86	0.83	0.81	
Replacement Filters (5 Per Pack)								
40mm	MCSC40-M45	178-1173●	0.85	0.81	0.76	0.68	0.64	
60mm	MCSC60-M45	178-1174●	0.80	0.77	0.71	0.64	0.58	
80mm	MCSC80-M45	178-1175●	1.41	1.36	1.28	1.16	1.07	
92mm	MCSC92-M45	178-1176●	1.76	1.53	1.43	1.29	1.17	
120mm	MCSC120-M45	178-1177●	2.30	1.93	1.83	1.63	1.59	
150mm	MC09650-M45	162-9432●	1.62	1.49	1.37	1.28	1.19	

Fan Size	Mfrs.	List No.	Order Code	Price Each/Per Pack				
				1+	10+	25+	50+	100+
Filter Assemblies								
40mm	MCSC40-M45	178-1173●	0.85	0.81	0.76	0.68	0.64	
60mm	MCSC60-M45	178-1174●	0.80	0.77	0.71	0.64	0.58	
80mm	MCSC80-M45	178-1175●	1.41	1.36	1.28	1.16	1.07	
92mm	MCSC92-M45	178-1176●	1.76	1.53	1.43	1.29	1.17	
120mm	MCSC120-M45	178-1177●	2.30	1.93	1.83	1.63	1.59	
150mm	MC09650-M45	162-9432●	1.62	1.49	1.37	1.28	1.19	
Replacement Filters (5 Per Pack)								
40mm	MCSC40-M45	178-1173●	0.85	0.81	0.76	0.68	0.64	
60mm	MCSC60-M45	178-1174●	0.80	0.77	0.71	0.64	0.58	
80mm	MCSC80-M45	178-1175●	1.41	1.36	1.28	1.16	1.07	
92mm	MCSC92-M45	178-1176●	1.76	1.53	1.43	1.29	1.17	
120mm	MCSC120-M45	178-1177●	2.30	1.93	1.83	1.63	1.59	
150mm	MC09650-M45	162-9432●	1.62	1.49	1.37	1.28	1.19	

External Dimensions (mm)			Mfrs.	Price Each				
H	W	D	List No.	Order Code	1+	10+	25+	100+
Polycarbonate								
55	100	100	G2100	152-6663●	3.20	3.05	2.95	2.92
55	120	80	G2104	152-6665●	9.79	8.66	8.46	8.37
100	240	120	G2117	152-6669●	10.09	9.05	8.46	7.99
55	200	150	G2119	152-6670●	7.89	7.08	6.62	6.21
75	200	150	G2120	152-6671●	8.25	7.41	6.94	6.56
55	190	190	G2135	152-6673●	7.21	6.85	6.67	6.59

Multipurpose

IP65, ABS



- Easily drilled or punched
- Tongue and groove sealing system with neoprene gasket
- Operating temperature range -20°C to +80°C

685461

Dimensions (mm)			Price Each				
H	W	D	Order Code	1+	25+	50+	100+
35	64	58	109-4697●	4.11	3.76	3.63	3.25
40	115	65	109-4698●	7.25	5.76	4.66	4.08
55	115	65	109-4699●	8.69	7.42	5.95	5.25
55	115	90	109-4700●	6.96	6.35	6.15	5.40
55	171	121	109-4702●	11.44	10.07	9.75	8.57
55	222	146	109-4703●	13.69	12.52	12.14	10.70
80	115	90	109-4704●	12.05	10.40	8.77	7.73
80	171	121	109-4705●	10.84	9.91	9.63	8.43
55	195	80	109-4706●	13.62	11.77	9.90	9.04
75	222	146	109-4707●	8.34	7.61	6.80	6.17
35	52	50	117-5794●	4.11	3.76	3.63	3.23
55	82	80	117-5795●	6.34	5.79	5.63	5.02
55	160	80	117-5796●	8.39	7.65	7.43	6.67
75	200	120	117-5799●	13.61	9.50	9.34	8.35
185	265	95	152-6643●	14.48	12.36	11.03	9.84
60	120	120	117-5800●	8.67	7.91	7.69	6.88
90	120	120	117-5801●	10.48	9.14	8.59	7.70
60	160	160	117-5802●	12.89	8.69	8.07	7.22
90	160	160	117-5803●	12.89	8.69	8.07	7.23
90	240	160	152-6644●	11.93	10.19	9.09	8.13
120	240	160	152-6645●	23.45	19.83	19.42	18.35
86	300	230	152-6646●	22.12	18.87	16.86	15.08
111	300	230	152-6647●	18.75	16.00	14.25	12.77
150	360	200	152-6648●	42.91	36.29	35.56	33.64

Multipurpose

IP65, Diecast



Wall Thickness 3.3mm

- Diecast aluminium, resistant to moisture and dust ingress.
- Sealed with neoprene gasket. Designed to IP65.
- Mountings and lid fixings outside of seal.
- Integral PCB guide slots (except 109-4718).

685462

Mfrs.	External Dimensions			Price Each				
List No.	H	W	D	Order Code	1+	25+	100+	
G102	36	90	30	117-5781●	7.01	6.43	5.86	5.20
G103	98	64	34	109-4682●	7.97	7.69	7.40	6.67
G104	58	64	35	109-4718●	11.12	9.03	8.86	8.34
G105	31	55.5	41	NEW 185-7189●	6.06	5.45	5.15	4.85
G106	65	115	30	109-4719●	8.11	7.71	7.09	6.82
G107	125	80	40	109-4684●	14.07	12.20	10.73	9.34
G108	125	80	57	109-4685●	15.51	13.91	12.44	10.89
G109	150	63	36.5	109-4686●	12.72	11.52	9.56	8.30
G110	52	79.6	74.6	NEW 185-7190●	9.63	9.18	8.98	8.77
G111	65	115	55	109-4720●	6.02	5.49	4.91	4.45
G112	25.5	102.5	52.5	NEW 185-7191●	2.50	2.10	1.82	1.60
G113	90	115	55	109-4721●	8.92	8.47	8.09	7.71
G115	108	148	75	117-5782●	18.43	16.34	14.98	14.57
G116	160	100	60	109-4687●	17.23	15.89	14.73	13.24
G117	160	100	81	109-4689●	17.86	16.50	15.33	13.86
G118	60	175	80	NEW 185-7192●	7.52	6.35	5.48	4.83
G120	121	171	55	117-5783●	18.79	16.62	15.26	14.87
G123	75	200	120	NEW 185-7193●	12.14	10.24	8.85	7.80

Mfrs.	External Dimensions			Price Each				
List No.	H	W	D	Order Code	1+	25+	100+	
G124	55	222	146	152-6683●	13.34	11.95	11.20	10.56
G125	82	222	146	152-6685●	17.51	15.73	14.71	13.68
G137	120.5	120.5	120.5	152-6684●	10.62	9.52	8.92	8.42
G139	158.5	158.5	158.5	152-6687●	17.51	15.73	14.71	13.88
G155	90.5	260	160	NEW 185-7194●	13.34	11.26	9.73	8.58

Multipurpose

IP65, PC



- Polycarbonate boxes sealed to IP65
- Wall mounting holes and lid fixing screws outside sealed area
- Operating temperature range -40°C to +100°C

Mfrs.	Dimensions (mm)			Price Each				
List No.	H	W	D	Order Code	1+	25+	50+	100+
G202	35	184	36	152-6675●	2.76	2.44	2.20	2.12
G250	50	52	35	117-5784●	3.33	2.90	2.74	2.46
G201	58	65	35	109-4690●	7.71	6.76	5.96	5.36
G203	65	115	40	109-4691●	9.03	7.93	7.00	6.26
G205	65	115	55	109-4692●	4.47	3.94	3.47	3.12
G256	80	82	55	117-5785●	7.77	6.76	6.38	5.71
G229	55	195	80	152-6676●	8.32	7.10	6.34	5.77
G212	90	115	55	109-4693●	12.47	10.98	9.71	8.65
G221	90	115	80	109-4708●	8.10	7.41	7.18	6.33
G279	120	120	60	117-5791●	9.06	8.28	8.04	7.18
G214	121	171	55	109-4694●	13.87	12.67	12.27	10.96
G223	121	171	80	109-4709●	17.85	15.58	13.07	11.53
G218	146	222	55	109-4696●	15.09	13.80	13.36	11.94
G232	146	222	75	109-4710●	22.02	19.77	17.29	15.65
G258	160	80	55	117-5787●	10.95	9.52	8.98	8.02
G287	160	160	60	117-5792●	16.67	15.23	14.76	13.21
G288	160	160	90	117-5793●	15.19	13.89	13.46	12.04
G2018	90	240	160	152-6678●	14.85	12.68	11.33	10.29
G2025	120	240	160	152-6679●	18.44	15.74	14.04	12.79
G238	95	265	185	152-6677●	10.41	9.56	9.30	9.22
G2058	150	360	200	152-6682●	46.61	39.80	35.52	32.32
G269	200	120	75	117-5789●	7.17	6.05	5.23	4.61
G2029	86	300	230	152-6680●	34.46	29.42	26.28	23.91
G2038	111	300	230	152-6681●	36.57	31.22	27.88	25.35

Mfrs.	Dimensions (mm)			Price Each				
List No.	H	W	D	Order Code	1+	5+	10+	20+
G101	50	45	30	109-4681●	5.56	4.78	4.52	4.17
G103	98	64	34	109-4682●	7.97	7.69	7.40	6.67
G107	125	80	40	109-4684●	14.07	12.20	10.73	9.34
G108	125	80	57	109-4685●	15.51	13.91	12.44	10.89
G109	150	63	36.5	109-4686●	12.72	11.52	9.56	8.30
G116	160	100	60	109-4687●	17.23	15.89	14.73	13.24
G117	160	100	81	109-4689●	17.86	16.50	15.33	13.86

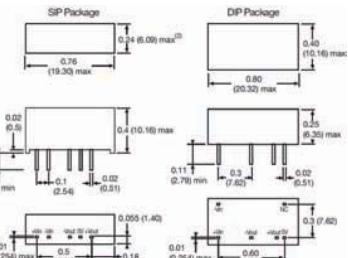
TROUBLESHOOTING TIPS

Chat online to one of our technical engineers at farnell.com

1 Watt Dual Output DC/DC Converters



multicomp



- Short circuit protection
- 1000 VDC isolation
- Dual Output
- Industry Standard Pinout
- SIP or DIP Package
- 40°C to +85°C Operation

- MTBF >1.1 MHrs
- 2 Year Warranty

NEW

Input Range	Nominal ±10%		Operating Temperature	-40°C to +85°C
Line Regulation	1.2%/1% Δ Vin		Storage Temperature	-40°C to +125°C
Load Regulation	10% 20-100% load change		Isolation Voltage	1000 VDC
Ripple & Noise	75 mV pk-pk max, 20 MHz bandwidth			

Input Voltage	Output 1		Output 2		SIP Package	DIP Package
	Voltage	Current	Voltage	Current	Order Code	Order Code
5V	5V	100mA	-5V	-100mA	207-9669	207-9668
5V	12V	42mA	-12V	-42mA	207-9671	207-9692
5V	15V	33mA	-15V	-33mA	207-9673	207-9694
12V	5V	100mA	-5V	-100mA	207-9675	207-9696
12V	12V	42mA	-12V	-42mA	207-9677	207-9698
12V	15V	33mA	-15V	-33mA	207-9680	207-9699
24V	5V	100mA	-5V	-100mA	207-9682	207-9700
24V	12V	42mA	-12V	-42mA	207-9684	207-9702
24V	15V	33mA	-15V	-33mA	207-9686	207-9704

685591

Mfrs.		Price Each				
List No.	Order Code	1+	5+	10+	25+	100+

SIP Package

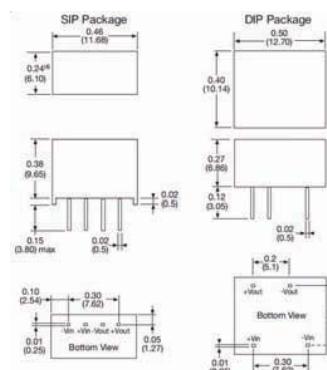
MCA05D05S	207-9669	3.81	3.71	3.58	3.42	3.25
MCA05D12S	207-9671	3.81	3.71	3.58	3.42	3.25
MCA05D15S	207-9673	3.81	3.71	3.58	3.42	3.25
MCA12D05S	207-9675	3.81	3.71	3.58	3.42	3.25
MCA12D12S	207-9678	2.61	2.53	2.46	2.39	2.32
MCA12D15S	207-9680	2.54	2.47	2.39	2.33	2.26
MCA24D05S	207-9682	2.54	2.47	2.39	2.33	2.26
MCA24D12S	207-9684	3.81	3.71	3.58	3.42	3.25
MCA24D15S	207-9686	3.81	3.71	3.58	3.42	3.25

DIP Package

MCA05D05D	207-9668	2.54	2.47	2.39	2.33	2.26
MCA05D12D	207-9670	2.54	2.47	2.39	2.33	2.26
MCA05D15D	207-9672	2.54	2.47	2.39	2.33	2.26
MCA12D05D	207-9674	2.54	2.47	2.39	2.33	2.26
MCA12D12D	207-9676	3.81	3.71	3.58	3.42	3.25
MCA12D15D	207-9679	2.54	2.47	2.39	2.33	2.26
MCA24D05D	207-9681	2.54	2.47	2.39	2.33	2.26
MCA24D12D	207-9683	2.54	2.47	2.39	2.33	2.26
MCA24D15D	207-9685	2.54	2.47	2.39	2.33	2.26

1 Watt Single Output DC/DC Converters

multicomp



- Industry standard pinout
- 1000 VDC isolation
- Short circuit protection
- Single Output
- SIP or DIP Package
- 40°C to +85°C Operation
- 2 Year Warranty

Input Range	Nominal ±10%	
Line Regulation	1.2%/1% Δ Vin	
Load Regulation	10% 20-100% load change	
Ripple & Noise	100 mV pk-pk max, 20 MHz bandwidth	
Operating Temperature	-40°C to +85°C	
Storage Temperature	-40°C to +125°C	
Isolation Voltage	1000 VDC	

NEW

Input Voltage	Voltage	Current	SIP Package Order Code	DIP Package Order Code
5V	5V	200mA	207-9688	207-9687
5V	12V	84mA	207-9692	207-9691
5V	15V	66mA	207-9694	207-9693
12V	5V	200mA	207-9696	207-9695
12V	12V	84mA	207-9698	207-9697
12V	15V	66mA	207-9700	207-9699
24V	5V	200mA	207-9702	207-9701
24V	12V	84mA	207-9704	207-9703
24V	15V	66mA	207-9706	207-9705

685592

Mfrs.		Price Each				
List No.	Order Code	1+	5+	10+	25+	100+

SIP Package						
MCE05S05S		207-9688	3.81	3.71	3.58	3.42
MCE05S12S		207-9692	3.81	3.71	3.58	3.42
MCE05S15S		207-9694	2.54	2.47	2.39	2.33
MCE12S05S		207-9696	2.54	2.47	2.39	2.33
MCE12S12S		207-9698	3.81	3.71	3.58	3.42
MCE12S15S		207-9700	3.81	3.71	3.58	3.42
MCE24S05S		207-9702	3.81	3.71	3.58	3.42
MCE24S12S		207-9704	3.81	3.71	3.58	3.42
MCE24S15S		207-9706	3.81	3.71	3.58	3.42

DIP Package						
MCE05S05D		207-9687	3.81	3.71	3.58	3.42
MCE05S12D		207-9691	2.54	2.47	2.39	2.33
MCE05S15D		207-9693	2.54	2.47	2.39	2.33
MCE12S05D		207-9695	3.81	3.71	3.58	3.42
MCE12S12D		207-9697	2.54	2.47	2.39	2.33
MCE12S15D		207-9699	2.54	2.47	2.39	2.33
MCE24S05D		207-9701	3.81	3.71	3.58	3.42
MCE24S12D		207-9703	2.54	2.47	2.39	2.33
MCE24S15D		207-9705	2.54	2.47	2.39	2.33

685593

Input Voltage	90 - 264VAC
Input Frequency	47 - 63 Hz
Efficiency	76% typical
Ripple & Noise	1% pk-pk max, 20 MHz bandwidth
No Load Input Power	<0.3W
Operating Temperature	0°C to +40°C, no derating
Safety Approvals	EN60950-1:2001, CE Mark
Emissions	EN55022 Level B conducted & radiated

Mfrs.	List No.	Output Power	Output Voltage	Output Current	Order Code
UK Plug	MCPLG5V10WUK	8W	5V	1.6A	182-7440
	MCPLG6V10WUK	8W	6V	1.33A	182-7441
	MCPLG7V10WUK	8W	7V	1.14A	182-7442
	MCPLG9V10WUK	10W	9V	1.11A	182-7444
	MCPLG12V10WUK	10W	12V	830mA	182-7445
	MCPLG24V10WUK	10W	24V	410mA	182-7446

685465

Order Code	1+	5+	10+	25+
All Order Codes	11.00	10.67	10.34	9.90

Mini Sim Card Connectors

multicomp

NEW

Bottom View	2211802 & 2211803	2211805

- Length: 15.7mm
- Width: 16.4mm
- PC Mount Type: SMT
- Contact Resistance: 50mΩ
- Operating Temperature: -40°C to +85°C

685466

No. of Pins	Mfrs.	Depth List No.	Order Code	Price Each
				1+ 10+ 100+
6	2.6	SIMMP-00601B000-G	221-1802	1.40 0.76 0.62
8	2.6	SIMMP-00801B000-G	221-1803	1.39 0.77 0.63
6	2.8	SIMMP-00601B004-G	221-1805	1.39 0.79 0.65

Micro Sim Card Connectors

SPC multicomp

NEW

- PC Mount Type: SMT
- Maximum Voltage: 5V
- Contact Resistance: 50mΩ
- Maximum Current: 10mA
- Operating Temperature: -40°C to +85°C

685467

Description	Mfrs.	List No.	Order Code	Price Each
				1+ 10+
6 Pin with Cover		SIMMP-00601BR09-G	221-1806	1.57 0.90
6 Pin with Hinged Cover		SIMMP-00601B201-G	221-1807	1.48 0.85
8 Pin with Hinged Cover		SIMMP-00801B201-G	221-1808	1.91 1.13
6 Pin with Holder		SIMMP-P0610BT00	221-1809	3.01 1.78
8 Pin with Holder		SIMMP-P0810BT00	221-1810	2.90 1.77
6 Pin with Cover		SIMMP-P0605BTR2-0	221-1811	2.34 1.44
8 Pin with Cover		SIMMP-P0805BTR2-0	221-1812	3.44 2.14

Dual Micro Sim Card Connector

SPC multicomp

NEW

- Length: 17.5mm
- Width: 17.5mm
- Depth: 3.05mm
- Contact Resistance: 50mΩ
- Operating Temperature: -40°C to +85°C
- Mating Cycles: 5000

685468

Mfrs.	Order Code	Price Each
List No.		1+ 10+ 100+ 250+ 500+
SIMMP-20805BT01	221-1813	3.38 2.13 1.79 1.37 1.10

SMA Jacks

SPC multicomp

NEW

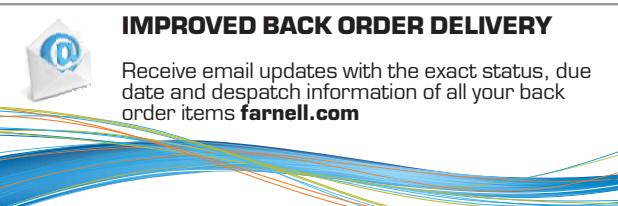
- Nominal Impedance : 50Ω
- Working Voltage Max : 500V
- Proof Voltage : 1,000V
- VSWR Max : 1.3
- IP67 waterproofed

Mfr Part No.
MC000244
MC000244
MC000244Frequency Range
DC-18GHz
DC-18GHz
DC-6GHz

685469

Mfrs.	Mounting	List No.	Order Code	Price Each
				1+ 10+ 25+ 50+
	Front	MC000242	225-3765	7.24 5.48 4.41 4.41
	Rear	MC000243	225-3766	7.29 5.52 4.45 4.45
	Edge	MC000244	225-3767	6.55 4.80 3.79 3.79

IMPROVED BACK ORDER DELIVERY



Receive email updates with the exact status, due date and despatch information of all your back order items farnell.com

N Jack and Adapter

SPC multicomp

**NEW**

R11-023-01-00B6120KK R11-012-01-032611000

Mfrs.	Order Code	Frequency Range	Nominal Impedance	Working Voltage Max	Proof Voltage	VSWR	IP Rating
MC000248	225-3773	DC-3GHz	50Ω	335V	750V	1.1 Max @ 500MHz	IP67
MC000245	225-3769	DC-11GHz	50Ω	500V	2,500V	1.3 Max @ 2GHz	IP67

685470

Mfrs.	Order Code	Price Each
List No.		1+ 10+ 25+ 50+

Straight N Jack	225-3773	8.27	6.26	5.04	5.04
N Jack to N Jack Bulkhead Adapter	225-3769	15.97	12.61	10.42	10.42

TNC Plug and Adapter

SPC multicomp

NEW

R13-029-11-00261100K R15-010-26-872611000

TNC Jack to BNC Jack Adapter	TNC Plug
● Frequency Range: DC-6GHz	● Frequency Range: DC-6GHz
● Nominal Impedance: 50Ω	● Nominal Impedance: 50Ω
● Working Voltage Max: 500V	● VSWR: 1.5 Max @ 4GHz
● Proof Voltage: 1,500V	● IP67 waterproofed

685471

Mfrs.	Order Code	Price Each
List No.		1+ 10+ 25+ 50+

Straight TNC Plug	225-3772	6.40	4.70	3.71	3.71
TNC Jack to BNC Jack Bulkhead Adapter	225-3771	14.64	11.56	9.55	9.55

Plastic D Sub Backshells, Vertical

SPC multicomp

NEW

MC-DPPK#-K



- Hinged single piece moulding with retaining latches
- Light weight and cost effective
- Long jackscrews with UNC 4-40 thread as standard
- Material: Nylon UL94 V-2
- Temp. range: -55°C to +105°C
- Cable strain relief: Cable clamp with self-tapping screws
- Cable diameter: 3.0 to 11.0 mm

685472

No. of Ways	Mfrs.	Order Code	Price Each
			1+ 10+ 50+ 100+

Black	9 MC-DPPK9-K	234-6656	1.43	0.76	0.56	0.48
15	MC-DPPK15-K	234-6823	1.54	0.83	0.60	0.52
25	MC-DPPK25-K	234-6824	1.95	1.05	0.76	0.66
37	MC-DPPK37-K	234-6826	1.73	0.98	0.74	0.62

Grey	9 MC-DPPK9-GREY-K	234-6827	1.43	0.76	0.56	0.48
15	MC-DPPK15-GREY-K	234-6828	1.54	0.83	0.60	0.52
25	MC-DPPK25-GREY-K	234-6829	1.95	1.05	0.76	0.66
37	MC-DPPK37-GREY-K	234-6830	1.73	0.98	0.74	0.62

Red	9 MC-DPPK9-RED-K	234-6831	1.43	0.76	0.56	0.48
15	MC-DPPK15-RED-K	234-6832	1.54	0.83	0.60	0.52
25	MC-DPPK25-RED-K	234-6833	1.95	1.05	0.76	0.66
37	MC-DPPK37-RED-K	234-6834	1.73	0.98	0.74	0.62

Blue	9 MC-DPPK9-BLUE-K	234-6835	1.43	0.76	0.56	0.48
15	MC-DPPK15-BLUE-K	234-6836	1.54	0.83	0.60	0.52
25	MC-DPPK25-BLUE-K	234-6838	1.95	1.05	0.76	0.66
37	MC-DPPK37-BLUE-K	234-6839	1.73	0.98	0.74	0.62

No. of Mfrs.		Price Each				
Ways	List No.	Order Code	1+	10+	50+	100+
Yellow						
9	MC-DPPK9-YELLOW-K	234-6840	1.43	0.76	0.56	0.48
15	MC-DPPK15-YELLOW-K	234-6841	1.54	0.83	0.60	0.52
25	MC-DPPK25-YELLOW-K	234-6842	1.95	1.05	0.76	0.66
37	MC-DPPK37-YELLOW-K	234-6843	1.73	0.98	0.74	0.62

No. of Mfrs.		Price Each				
Ways	List No.	Order Code	1+	10+	50+	100+
White						
9	MC-DPPK9-WHITE-K	234-6844	1.43	0.76	0.56	0.48
15	MC-DPPK15-WHITE-K	234-6845	1.54	0.83	0.60	0.52
25	MC-DPPK25-WHITE-K	234-6846	1.95	1.05	0.76	0.66
37	MC-DPPK37-WHITE-K	234-6847	1.73	0.98	0.74	0.62

Black Plastic D Sub Backshells, Vertical

MC-DTPPK#-K



- Light weight and cost effective
- Re-openable
- Long jackscrews with UNC 4-40 thread as standard
- Material: Polycarbonate UL94 V-0
- Temp. range: -55°C to +105°C
- Cable strain relief: Grommets 4, 5, 7 and 9 mm, Polycarbonate UL94 V-0
- Cable diameter: 3.0 to 13.0 mm

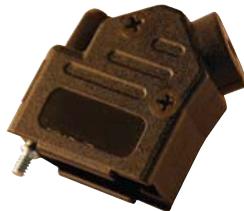
NEW

No. of Mfrs.		Price Each				
Ways	List No.	Order Code	1+	10+	50+	250+
9	MC-DTPPK9-K	234-6848	1.88	1.07	0.80	0.67
15	MC-DTPPK15-K	234-6851	1.92	1.09	0.83	0.68
25	MC-DTPPK25-K	234-6852	2.10	1.19	0.90	0.75
37	MC-DTPPK37-K	234-6853	2.29	1.30	0.98	0.82

685473

Black Plastic D Sub Backshells, 45°

MC-DVPK#-K



- Light weight and cost effective
- Re-openable
- Long jackscrews with UNC 4-40 thread as standard
- Material: Polycarbonate UL94 V-0
- Temp. range: -55°C to +105°C
- Cable strain relief: Grommets 4, 5, 7 and 9 mm, Polycarbonate UL94 V-0
- Cable diameter: 3.0 to 13.0 mm

NEW

No. of Mfrs.		Price Each				
Ways	List No.	Order Code	1+	10+	50+	250+
9	MC-DVPK9-K	234-6858	1.72	0.97	0.74	0.62
15	MC-DVPK15-K	234-6855	1.90	1.07	0.81	0.68
25	MC-DVPK25-K	234-6856	2.14	1.21	0.91	0.77
37	MC-DVPK37-K	234-6857	2.97	1.69	1.27	1.06

685474

Metalized D Sub Backshells, Vertical

MC-DTPMK#-K



- Minimise interference from electromagnetic and RF sources
- Non-static parts avoid ESD problems
- Accept round foil and braided cable types
- Approved according VDE 0871, FCC 20780 and 89/336/EU
- Long jackscrews with UNC 4-40 thread as standard
- Material: ABS Plastic, Ni-plated
- Temp. range: -40°C to +110°C
- Cable strain relief: Polycarbonate, PC UL94 V-0
- Cable diameter: 3.0 to 13.0 mm

● Attenuation factor: > 40 dB between 30 MHz and 1 GHz

685475

No. of Mfrs.		Price Each				
Ways	List No.	Order Code	1+	10+	50+	250+
9	MC-DTPMK9-K	234-6858	2.88	1.64	1.24	1.03
15	MC-DTPMK15-K	234-6859	3.24	1.84	1.39	1.16
25	MC-DTPMK25-K	234-6860	3.82	2.17	1.64	1.36
37	MC-DTPMK37-K	234-6861	4.24	2.40	1.81	1.51

Metalized D Sub Backshells, 45°

MC-DVPMK#-K

multicomp

NEW



- Minimise interference from electromagnetic and RF sources
- Non-static parts avoid ESD problems
- Accept round foil and braided cable types
- Approved according VDE 0871, FCC 20780 and 89/336/EU
- Long jackscrews with UNC 4-40 thread as standard
- Material: ABS Plastic, Ni-plated
- Temp. range: -40°C to +110°C
- Cable strain relief: Polycarbonate, PC UL94 V-0
- Cable diameter: 3.0 to 13.0 mm

● Attenuation factor: > 40 dB between 30 MHz and 1 GHz

685476

No. of Mfrs.		Price Each					
Ways	List No.	Order Code	1+	10+	50+	100+	250+
9	MC-DVPMK9-K	234-6863	2.98	1.70	1.28	1.06	0.94
15	MC-DVPMK15-K	234-6864	3.51	2.00	1.50	1.26	1.11
25	MC-DVPMK25-K	234-6865	3.99	2.27	1.70	1.43	1.25
37	MC-DVPMK37-K	234-6866	4.51	2.56	1.92	1.61	1.41

Waterproof M12 Connectors and Cable Assemblies

multicomp

NEW



- Current Rating - 2A or 5A
- Corrosion - 48 Hrs Salt Spray Contact
- IP68 Panel Mount Sockets / IP67 PVC Cable Assemblies
- Durability - 500 cycles min.
- Contacts - Copper Alloy, Gold plated
- Connector Material - Nylon + GF
- Black PVC Cable
- Connector Temperature Range = -40°C to +100°C
- Cable Temperature Range = -20°C to +80°C

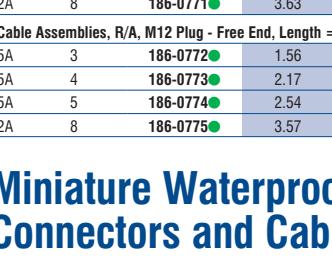
685477

Current Rating	No. of Ways	Order Code	1+	10+	25+	50+
Rear Panel Mount Sockets, IP68						
5A	3	186-0758	3.41	3.01	2.69	2.44
5A	4	186-0759	8.45	7.69	6.82	5.81
5A	5	186-0760	4.33	3.82	3.41	3.10
2A	8	186-0761	7.43	6.78	6.07	5.50
Front Panel Mount Sockets, IP68						
5A	3	186-0762	3.15	2.86	2.62	2.41
5A	4	186-0763	3.94	3.48	3.11	2.81
5A	5	186-0764	4.01	3.54	3.17	2.87
2A	8	186-0765	4.88	4.31	3.85	3.49
Cable Assemblies, M12 Plug - Free End, Length = 1M, IP67						
5A	3	186-0766	2.02	1.79	1.60	1.45
5A	4	186-0767	2.52	2.22	2.00	1.80
5A	5	186-0769	2.71	2.39	2.14	1.94
2A	8	186-0771	3.63	3.20	2.87	2.59
Cable Assemblies, R/A, M12 Plug - Free End, Length = 1M, IP67						
5A	3	186-0772	1.56	1.51	1.47	1.42
5A	4	186-0773	2.17	1.96	1.80	1.65
5A	5	186-0774	2.54	2.24	2.01	1.82
2A	8	186-0775	3.57	3.15	2.82	2.55

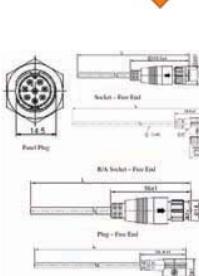
Miniature Waterproof Connectors and Cable Assemblies - IP67

multicomp

NEW



- Current Rating - 2A, 5A or 10A
- Corrosion - 48 Hrs Salt Spray Contact
- Durability - 500 cycles min.
- Contacts - Copper Alloy, Gold plated
- Connector Material - Nylon + GF
- Black PVC Cable
- Connector Temperature Range = -40°C to +100°C
- Cable Temperature Range = -20°C to +80°C



685478

Current Rating	No. of Ways	Order Code	Price Each			
			1+	10+	25+	50+
Panel Plugs, IP67						
2A	10	186-0678●	1.66	1.46	1.30	1.19
2A	12	186-0679●	1.91	1.69	1.51	1.37
5A	4	186-0680●	2.18	2.00	1.75	1.49
5A	5	186-0681●	2.44	2.21	1.97	1.67
5A	6	186-0682●	1.23	1.09	0.97	0.87
5A	7	186-0683●	1.26	1.15	1.04	0.97
5A	8	186-0684●	1.60	1.42	1.27	1.15
10A	2	186-0685●	1.71	1.57	1.39	1.19
10A	3	186-0686●	2.31	2.10	1.86	1.59
10A	4	186-0687●	1.20	1.07	0.96	0.86
Dust Caps for Panel Plugs						
Screw Cap		186-0688●	0.68	0.61	0.55	0.47
Snap-In Cap		186-0691●	0.37	0.33	0.28	0.23
Cable Assemblies, Socket - Free End, Length = 1M						
2A	10	186-0692●	4.54	4.01	3.59	3.25
2A	12	186-0693●	4.98	4.43	4.00	3.64
5A	4	186-0694●	5.81	5.27	4.67	3.97
5A	5	186-0695●	2.24	2.18	2.11	2.05
5A	6	186-0696●	3.57	3.16	2.83	2.55
5A	7	186-0697●	3.54	3.21	2.93	2.70
5A	8	186-0698●	4.11	3.62	3.24	2.93
10A	2	186-0699●	4.78	4.35	3.85	3.27
10A	3	186-0700●	2.80	2.48	2.21	2.01
10A	4	186-0701●	3.23	2.85	2.55	2.31
Cable Assemblies, R/A, Socket - Free End, Length = 1M						
2A	10	186-0702●	4.19	3.80	3.48	3.20
2A	12	186-0703●	4.87	4.42	4.04	3.72
5A	4	186-0704●	1.91	1.85	1.80	1.75
5A	5	186-0705●	6.68	6.07	5.38	4.58
5A	6	186-0706●	2.58	2.50	2.43	2.36
5A	7	186-0708●	3.08	2.79	2.55	2.35
5A	8	186-0709●	3.16	3.07	2.98	2.89
10A	2	186-0710●	2.17	1.92	1.72	1.55
10A	3	186-0711●	2.67	2.36	2.10	1.91
10A	4	186-0712●	3.03	2.75	2.52	2.31
Cable Assemblies, Plug - Free End, Length = 1M						
2A	10	186-0713●	2.44	2.22	2.03	1.87
2A	12	186-0714●	2.43	2.25	2.10	1.96
5A	4	186-0715●	1.42	1.37	1.33	1.30
5A	5	186-0716●	1.76	1.59	1.46	1.34
5A	6	186-0717●	5.72	5.20	4.61	3.92
5A	7	186-0718●	1.95	1.82	1.71	1.61
5A	8	186-0721●	2.40	2.18	1.99	1.83
10A	2	186-0722●	1.55	1.37	1.23	1.11
10A	3	186-0723●	1.47	1.33	1.22	1.12
10A	4	186-0724●	2.21	2.00	1.84	1.69
Cable Assemblies, R/A, Plug - Free End, Length = 1M						
2A	10	186-0725●	2.16	1.98	1.84	1.72
2A	12	186-0726●	2.79	2.52	2.31	2.13
5A	4	186-0727●	1.52	1.37	1.25	1.15
5A	5	186-0728●	1.76	1.59	1.46	1.34
5A	6	186-0729●	1.99	1.80	1.65	1.52
5A	7	186-0730●	2.16	1.98	1.83	1.71
5A	8	186-0731●	2.40	2.18	1.99	1.83
10A	2	186-0733●	1.25	1.13	1.03	0.95
10A	3	186-0734●	1.38	1.29	1.22	1.16
10A	4	186-0735●	1.66	1.54	1.42	1.33

Miniature Waterproof Panel Sockets & Plug Cable Assemblies



- Current Rating - 10A
- IP Rating - IP67 (Screw Lock), IP55 (Bayonet Lock)
- Contacts - Phosphor Bronze, Gold plated
- Connector Material - Nylon + GF
- Black PVC Cable
- Temperature Range = -40°C to +100°C (Screw Lock), -20°C to +80°C (Bayonet Lock)

NEW

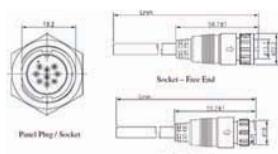
685479

Current Rating	No. of Ways	Order Code	Price Each			
			1+	10+	25+	50+
Panel Plug, Screw Lock, IP67						
10A	3	186-0736●	1.38	1.25	1.10	0.91
Cable Assemblies, Plug - Free End, Length = 1M, Screw Lock, IP67						
10A	3	186-0738●	2.29	2.03	1.82	1.65
Square Panel Socket, Bayonet Lock, IP55						
10A	3	186-0737●	1.74	1.69	1.64	1.59
Cable Assemblies, Plug - Free End, Length = 1M, Bayonet Lock, IP55						
10A	3	186-0739●	2.50	2.26	2.07	1.89

Waterproof Connectors and Cable Assemblies - IP67

multicomp

NEW



- Current Rating - 5A or 16A
- Corrosion - 48 Hrs Salt Spray Contact
- Durability - 500 cycles min.
- Contacts - Brass, Gold plated
- Connector Material - Nylon + GF
- Black PVC Cable
- Connector Temperature Range = -40°C to +100°C
- Cable Temperature Range = -20°C to +80°C

685480

Current Rating	No. of Ways	Order Code	Price Each			
			1+	10+	25+	50+
Panel Plugs, IP67						
5A	7	186-0740●	1.390	1.220	1.090	0.990
5A	8	186-0741●	3.260	2.970	2.630	2.230
5A	9	186-0742●	1.460	1.330	1.220	1.120
16A	3	186-0743●	1.220	1.080	0.970	0.870
Cable Assemblies, Socket - Free End, Length = 1M						
5A	7	186-0748●	3.980	3.510	3.140	2.850
5A	8	186-0749●	3.240	3.150	3.050	2.970
5A	9	186-0750●	4.900	4.320	3.860	3.500
16A	3	186-0751●	3.670	3.330	3.050	2.810
Cable Assemblies, Plug - Free End, Length = 1M						
5A	7	186-0753●	2.160	2.000	1.870	1.760
5A	8	186-0754●	2.660	2.390	2.180	1.990
5A	9	186-0755●	2.730	2.650	2.570	2.500
16A	3	186-0757●	5.250	4.770	4.360	4.020
Panel Mount Socket, IP67						
16A	3	186-0745●	1.400	1.270	1.160	1.070
Cable Assembly, Plug - Free End, Length = 1M						
16A	3	186-0752●	2.310	2.100	1.930	1.780

Dust Caps for Panel Plugs & Sockets

Screw Cap	186-0746●	0.810	0.740	0.660	0.560
Snap-In Cap	186-0747●	0.161	0.142	0.127	0.115

multicomp

3.0mm Plug & Receptacle Housings

5560 / 5561 series



- 3.0mm grid spacing
- Dual Row
- Flammability rating - UL 94V-0

Mfrs. List No.	No. of Ways	Order Code	10+	100+	250+	500+	1K+	Price Each
Free Hanging Receptacles								
MC34583	2	157-8562●	0.260	0.200	0.148	0.124	0.101	
MC34585	4	157-8563●	0.080	0.073	0.068	0.064	0.059	
MC34587	6	157-8564●	0.440	0.350	0.240	0.210	0.166	
MC34589	8	157-8565●	0.101	0.092	0.084	0.079	0.074	
MC34591	10	157-8566●	0.110	0.101	0.092	0.086	0.080	
MC34571	12	157-8567●	0.520	0.430	0.330	0.240	0.200	
MC34573	14	157-8568●	0.179	0.157	0.140	0.126	0.115	

Mfrs. List No.	No. of Ways	Order Code	Price Each				
			10+	100+	250+	500+	1K+
Free Hanging Receptacles							
MC34845	16	157-8569●	0.184	0.161	0.144	0.130	0.119
MC34847	18	157-8570●	0.134	0.124	0.116	0.109	0.103
MC34575	20	157-8572●	0.690	0.550	0.420	0.340	0.280
Panel Mount Plugs							
MC34593	2	157-8573●	0.130	0.114	0.103	0.091	0.084
MC34595	4	157-8574●	0.150	0.131	0.119	0.108	0.097
MC34599	8	157-8576●	0.640	0.520	0.400	0.310	0.250
MC34601	10	157-8577●	0.500	0.450	0.370	0.320	0.270
MC34577	12	157-8578●	0.109	0.101	0.095	0.089	0.084
MC34579	14	157-8579●	0.080	0.071	0.064	0.058	0.054
MC34841	16	157-8580●	0.158	0.145	0.133	0.124	0.117
MC34843	18	157-8581●	0.139	0.135	0.131	0.127	0.124
MC34581	20	157-8582●	0.153	0.143	0.133	0.125	0.118
Crimp Pin			100+	500+	1K+	2K5+	5K+
2261(5561)T	20 - 24 AWG	157-8642●	0.059	0.047	0.017	0.013	0.011
Crimp Socket							
2260(5560)T	20 - 24 AWG	157-8643●	0.059	0.047	0.017	0.013	0.011

3.0mm Vertical & Right Angle Headers

5561S / 5561R series



- Orientation - Vertical and Right Angle Headers available
- 3.0mm grid spacing
- Dual Row
- Flammability rating - UL 94V-2
- 5561S & 5561R mate with Receptacle Housings 5560

Mfrs. List No.	Ways	Order Code	Price Each				
			10+	100+	250+	500+	1K+
Vertical Headers							
MC34715	2	157-8584●	0.850	0.730	0.610	0.530	0.520
MC34329	4	157-8585●	0.220	0.200	0.180	0.164	0.138
MC34331	6	157-8586●	0.660	0.550	0.400	0.310	0.260
MC34333	8	157-8587●	0.220	0.200	0.181	0.163	0.148
MC34335	10	157-8588●	0.155	0.136	0.122	0.109	0.100
MC34705	12	157-8589●	0.730	0.590	0.460	0.360	0.300
MC34707	14	157-8590●	0.112	0.105	0.098	0.092	0.086
MC34849	16	157-8591●	0.183	0.178	0.173	0.168	0.163
MC34851	18	157-8592●	0.045	0.043	0.040	0.038	0.036
MC34327	20	157-8593●	0.108	0.101	0.094	0.088	0.083
Right Angle Headers							
MC34337	2	157-8594●	0.620	0.480	0.430	0.410	0.390
MC34717	4	157-8596●	0.790	0.610	0.550	0.520	0.500
MC34339	6	157-8597●	1.030	0.810	0.730	0.690	0.650
MC34341	8	157-8598●	0.115	0.111	0.108	0.105	0.102
MC34343	10	157-8599●	0.196	0.172	0.154	0.139	0.125
MC34709	12	157-8600●	0.189	0.173	0.159	0.148	0.139
MC34711	14	157-8602●	0.108	0.105	0.102	0.099	0.096
MC34853	16	157-8603●	0.950	0.790	0.590	0.460	0.390

3.0mm Vertical & Right Angle SMT Headers

5561S-SM1 / 5561R-SM1 series



- Orientation - Vertical and Right Angle Headers available
- Mounting Type - SMT
- 3.0mm grid spacing
- Headers come with metal tabs
- Dual Row
- Flammability rating - UL 94V-2
- 5561S-SM1 & 5561R-SM1 mate with Receptacle Housings 5560

Mfrs. List No.	Contact Material	Contact Plating	Current Rating	Voltage Rating	Operating Temperature		
					-25°C to 105°C	250V	5A
Housing Material							
High Temp. Plastic	Copper	Tin	5A	250V			

685483

Mfrs. List No.	Ways	Order Code	Price Each				
			10+	100+	250+	500+	1K+

Vertical Headers

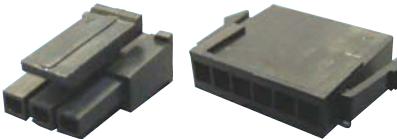
MC34857	2	157-8606●	0.240	0.220	0.195	0.177	0.148
MC34859	4	157-8607●	1.360	1.050	0.950	0.910	0.880
MC34861	6	157-8608●	0.195	0.172	0.157	0.144	0.133
MC34863	8	157-8609●	1.230	1.000	0.920	0.890	0.860
2261(5561)S-10T-SM1	10	157-8610●	0.230	0.210	0.191	0.175	0.162
2261(5561)S-12T-SM1	12	157-8611●	0.320	0.270	0.240	0.210	0.197
MC34865	14	157-8612●	0.167	0.162	0.157	0.153	0.149
2261(5561)S-16T-SM1	16	157-8614●	0.270	0.250	0.240	0.220	0.210
MC34867	18	157-8615●	0.114	0.105	0.097	0.090	0.084
MC34869	20	157-8616●	0.210	0.200	0.198	0.192	0.187

Right Angle Headers

MC34871	2	157-8617●	0.189	0.176	0.164	0.154	0.145
MC34873	4	157-8618●	0.730	0.670	0.590	0.520	0.420
MC34875	6	157-8620●	0.200	0.195	0.189	0.184	0.179
MC34877	8	157-8621●	0.270	0.230	0.210	0.186	0.170
MC34879	10	157-8622●	0.610	0.560	0.500	0.450	0.380
MC34881	12	157-8623●	0.420	0.370	0.340	0.290	0.260
MC34885	16	157-8626●	0.490	0.450	0.410	0.390	0.360
2261(5561)R-18T-SM1	18	157-8627●	0.210	0.192	0.177	0.165	0.153
MC34887	20	157-8628●	0.500	0.460	0.420	0.390	0.370

3.0mm Plug & Receptacle Housings

5560A / 5561A series



Receptacle Housing



Plug Housing

- 3.0mm grid spacing
- Single Row
- Housings have mounting ears
- Flammability rating - UL 94V-0

Mfrs. List No.	Ways	Order Code	Price Each				
			10+	100+	250+	500+	1K+
Free Hanging Receptacles							
MC34539	2	157-8629●	0.280	0.210	0.165	0.139	0.117
MC34541	3	157-8630●	0.380	0.280	0.210	0.159	0.134
MC34543	4	157-8631●	0.280	0.240	0.195	0.159	0.132
Panel Mount Plugs							
MC34545	2	157-8632●	0.092	0.081	0.073	0.066	0.060
MC34547	3	157-8633●	0.270	0.210	0.179	0.143	0.127
2261(5561)A-04	4	157-8634●	0.080	0.077	0.075	0.073	0.071
Crimp Pin							
2261(5561)T	20 - 24 AWG	157-8642●	0.059	0.047	0.017	0.013	0.011
Crimp Socket							
2260(5560)T	20 - 24 AWG	157-8643●	0.059	0.047	0.017	0.013	0.011

- 3.0mm grid spacing
- Single Row
- Housings have mounting ears
- Flammability rating - UL 94V-0

Mfrs. List No.	Ways	Order Code	Price Each				
			10+	100+	250+	500+	1K+
Vertical Headers							
2261(5561)SA-02	2	157-8635●	0.400	0.330	0.220	0.188	0.160
2261(5561)SA-03	3	157-8636●	0.187	0.160	0.131	0.106	0.083
2261(5561)SA-04	4	157-8638●</td					

Duratool offers great value quality products at competitive prices giving you access to a wide range of products including hand, power, soldering tools, fasteners and storage products that compete with most branded products, providing tough tools for tough jobs.

For more information please visit uk.farnell.com/duratool

Wire Stripper Super No 5



DURATOOL

- Automatic wire stripper for all common stranded and solid conductors of 0,2 to 6,0 mm² (24-10 AWG).
- Adjustable length stop of 5 to 12 mm (removable if required).
- Easily accessible built-in side cutter for max 2mm Ø

685593

Mfrs.

List No.	Order Code	1+	5+	10+	Price Each
D01022	169-6726	20.67	19.62	18.90	

ESD Desoldering Pump



DURATOOL

- Metal body with 7.7cm³ volume
- ESD compliant
- Electrical resistance 10⁵ OHM
- Heat resistant & conductive carbon fibre nozzle

685400

Mfrs.

List No.	Order Code	1+	5+	10+	Price Each
Desoldering Pump, ESD	179-2724	11.58	11.15	10.95	
Replacement nozzle, ESD	179-2725	3.24	3.13	3.07	

Dedsoldering Pump



DURATOOL

- Metal construction
- Anti-static tip

685401

Description	Length (mm)	Order Code	1+
Desoldering pump	162	312-5634	4.07
Desoldering pump	195	312-5646	4.95

Accessories

Spare tip	312-7709	1.69
-----------	----------	------

Tip Cleaner



DURATOOL

- Contents made of low abrasive brass shavings
- No water or messy wet sponges necessary
- No temperature drop as in conventional sponges
- Anti-slip pad on the base and an integral adjustable soldering iron rest
- Two concave indent on the top rim
- Dimensions (Dia. x H): Ø82x30mm

685402

Description	Order Code	1+	5+	Price Each
Tip Cleaner	146-7280	6.12	5.98	

Portable Vacuum Pick-Up Tool

DURATOOL



- For use with static sensitive components
- Easily handles small flat parts with a touch of a button
- Ideal tool for the handling of SMDs and other delicate components

- Self-contained vacuum. No hoses and batteries required
- Storage for the probes and cups in the handle (132mm)
- The hand-held SMD vacuum pick up tool is ideal for picking up and moving large or small electronic components
- Lightweight, portable and suitable for the picking and placing of small components weighing up to 50 grams and having a flat surface, DIL packages and surface mount components, etc. And its new high-power probes have longer holding action
- Supplied with 3 angled and 3 straight pick-up hands with a choice 4mm, 6mm or 10mm cap diameters

685403

Description	Order Code	1+	10+	Price Each
Vacuum Pick-Up Tool	151-6350	5.24	4.77	

Helping hand

DURATOOL



- Allows a PCB or any delicate or small work item to be held in position using the two crocodile clips
- The user can keep both hands free for positioning, soldering and assembling

685404

Order Code	1+	Price Each
312-5350	6.03	

PLCC Extractor

DURATOOL



- A spring assisted clip carrier extraction tool, specially designed for the safe removal of PLCCs from their sockets without damage to component parts

685405

Order Code	1+	Price Each
312-5361	3.55	

BROWSE ONLINE! ON TABLET!

Try our online catalogue with dynamic pricing making browsing online more accessible and easier to use
(compatible with iPad and Android Tablet devices)



Precision Tweezer Set

5-Pieces, Budget Range



- The 5 most used precision tweezers supplied in a practical plastic wallet
- in anti-magnetic stainless steel (SA)

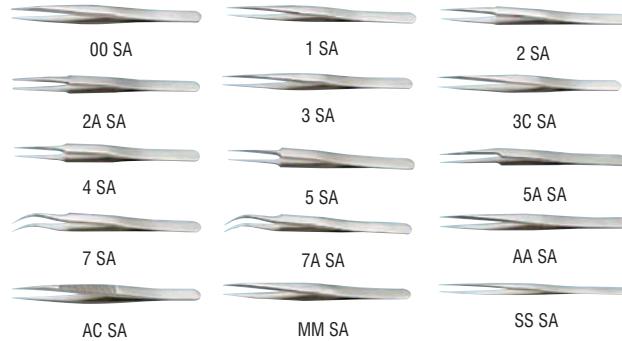
Typ	Description	Total length
00 SA	Tweezers with flat, strong tips	120mm
2A SA	Tweezers with flat, rounded tips	120mm
3C SA	Tweezers with very sharp tips	110mm
5 SA	Tweezers with very fine tips	110mm
7 SA	Tweezers with fine, bent tips	110mm

685406

Order Code	Price Each	1+	5+	10+
130-6402	32.40	32.05	30.86	

Precision Tweezers

Budget Range



- A budget range of precision tweezers
- in anti-magnetic stainless steel (SA)
- wide choice of shapes for a large variety of industrial applications
- quality controlled
- packaged in a practical plastic wallet

Mfrs.	List No.	Model	Description	Length
				inches mm
D00334	00 SA	Flat edges, thick	4 3/4 120	
D00335	1 SA	Accurate, strong tips	4 3/4 120	
D00337	2 SA	Flat, sharp fine tips	4 3/4 120	
D00337	2A SA	Flat, round tip	4 3/4 120	
D00338	3 SA	Very sharp tips	4 3/4 120	
D00339	3C SA	Very sharp tips, superior finish	4 1/4 110	
D00340	4 SA	Fine tips	4 1/4 110	
D00341	5 SA	Extra fine tips	4 1/2 115	
D00342	5A SA	Extra fine tips	4 1/2 115	
D00343	7 SA	Fine curved tips	4 1/2 115	
D00344	7A SA	Fine strong curved tips	4 1/2 115	
D00345	AA SA	Strong tips for general use	5 130	
D00346	AC SA	Strong tips, serrated grips	4 1/4 110	
D00347	MM SA	General purpose, strong fine tips	5 130	
D00348	SS SA	Super slim, extra fine	5 1/2 140	

685407

Mfrs.	Tweezers	Price Each	1+	5+	10+
D00334	00 SA	130-6385	7.05	6.96	6.73
D00335	1 SA	130-6386	7.05	6.96	6.73
D00336	2 SA	130-6387	7.05	6.96	6.73
D00337	2A SA	130-6389	7.05	6.96	6.73
D00338	3 SA	130-6391	7.05	6.96	6.73
D00339	3C SA	130-6392	7.05	6.96	6.73
D00340	4 SA	130-6393	7.74	7.68	7.40
D00341	5 SA	130-6394	7.74	7.68	7.40
D00342	5A SA	130-6395	7.74	7.68	7.40
D00343	7 SA	130-6396	7.74	7.68	7.40
D00344	7A SA	130-6397	7.74	7.68	7.40
D00345	AA SA	130-6398	5.36	5.31	5.10
D00346	AC SA	130-6399	7.59	7.53	7.25
D00347	MM SA	130-6400	5.36	5.31	5.10
D00348	SS SA	130-6401	7.05	6.96	6.73

DURATOOL

Precision Tweezer Sets

ESD-conductive

DURATOOL



161-7216
(includes: 3.SA; 5.SA; 7A.SA;
12.SA.SMD; 13.SA.SMD)

161-7218
(includes: 3.SA; 3C.SA; 5.SA;
7A.SA; 12.SA.SMD; 13.SA.SMD)

- The Set contains the most used precision tweezers
- Made of Anti-Magnetic Anti-Acid stainless Steel with ESD polyester epoxy coating (10^3 - 10^6 ohm)
- Comfortable handling and insertion of SMD components

Mfrs.List No.	Type	Description	length
D00831	3.SA ESD	Sharp Tweezers	120
D00832	3C.SA ESD	Sharp Tweezers	110
D00833	5.SA ESD	Fine Tips Tweezers	110
D00834	7A.SA ESD	Fine Curved Tweezers	115
D00836	12.SA.SMD ESD	SMD Tweezers for handling and positioning 2 and 3 lead SOT 45° bent	120
D00837	13.SA.SMD ESD	SMD Tweezers for handling and positioning 1mm components	120

685408

Price Each

Mfrs.List No.	Order Code	1+	5+	10+
D00838	161-7215	36.84	36.46	34.60
D00839	161-7216	45.51	45.04	42.71
D00840	161-7218	53.10	52.55	49.84

ESD Black Coating Tweezers

DURATOOL



- Manufactured from Anti-Magnetic Anti-Acid stainless Steel with ESD polyester epoxy coating (10^3 - 10^6 Ohm)
- Specifically intended for a smooth handling and positioning of most SMD components
- Accurate symmetry and balance
- Fine polished, mat anti-glare finish

Mfrs.	List No.	Model	Description	Length
				mm
D00830	2.A.SA ESD	Flat Round Tweezers		120
D00831	3.SA ESD	Sharp Tweezers		120
D00832	3C.SA ESD	Sharp Tweezers		110
D00833	5.SA ESD	Fine Tips Tweezers		110
D00834	7.A.SA ESD	Fine Curved Tweezers		115
D00835	AA.SA ESD	Straight Fine Tweezers		130
D00836	12.SA.SMD	SMD Tweezers for handling and positioning 2 and 3 lead SOT 45° bent		120
D00837	13.SA.SMD	SMD Tweezers for handling and positioning 1mm components		120

685409

Price Each

List No.	Order Code	1+	5+	10+
D00830	161-6325	10.03	9.89	9.52
D00831	161-6326	10.03	9.89	9.52
D00832	161-6327	10.03	9.89	9.39
D00833	161-6329	10.63	10.50	10.10
D00834	161-6331	10.63	10.50	10.10
D00835	161-6332	8.62	8.50	8.19
D00836	161-6333	10.99	10.89	10.33
D00837	161-6334	10.99	10.89	10.50

Electronic Professional Side Cutters

The Best Cutters You'll Ever Use



- High quality ball bearing steel
- 63 - 65 Rockwell Hardness (HRC)
- 2-Component ESD Ergonomic handles, soft comfortable gripping surface, hard plastic core
- Dual leaf springs in blue steel
- Matched bearing rings to minimize metal-metal contact and friction

- Lap joint with screw to achieve a high level of strength and precision
- Static dissipative (10^6 - 10^8 $\Omega/\text{sq.}$), oil, grease and wear-resistant
- All cutters available with three types of cutting blades:
 - Semi-flush: for soft and hard wire
 - Flush: for very precise cutting of soft wire
 - Full-flush: for a perfect cutting of soft wire

Head Size	Cut Type	Cutting Capacity	Overall length inch	mm	Mfrs. List No.	Order Code
-----------	----------	------------------	---------------------	----	----------------	------------

Oval Head

S	Semi Flush	0.2 - 1.2 mm	4.8"	123	D00998	169-6510
S	Flush	0.1 - 1.2 mm	4.8"	123	D00999	169-6511
S	Full Flush	0.1 - 1.0 mm	4.8"	123	D01000	169-6512
L	Semi Flush	0.3 - 1.6 mm	4.9"	125	D01001	169-6513
L	Flush	0.2 - 1.6 mm	4.9"	125	D01002	169-6514
L	Full Flush	0.2 - 1.2 mm	4.9"	125	D01003	169-6515

Tapered Head

S	Semi Flush	0.2 - 1.2 mm	4.8"	123	D01004	169-6516
S	Flush	0.1 - 1.2 mm	4.8"	123	D01005	169-6517
S	Full Flush	0.1 - 1.0 mm	4.8"	123	D01006	169-6519
L	Semi Flush	0.3 - 1.6 mm	4.9"	125	D01007	169-6521
L	Flush	0.2 - 1.6 mm	4.9"	125	D01008	169-6522
L	Full Flush	0.2 - 1.2 mm	4.9"	125	D01009	169-6523

Tapered & Relieved Head

S	Semi Flush	0.2 - 1.0 mm	4.8"	123	D01010	169-6524
S	Flush	0.1 - 1.0 mm	4.8"	123	D01011	169-6525
S	Full Flush	0.1 - 0.8 mm	4.8"	123	D01012	169-6526

686046

Mfrs.

List No.	Head Size	Cut Type	Order Code	Price Each
				1+
				5+ 10+

Oval Head

D00998	S	Semi Flush	169-6510	26.35	23.77	23.62
D00999	S	Flush	169-6511	27.03	24.36	24.22
D01000	S	Full Flush	169-6512	27.64	24.92	24.78
D01001	L	Semi Flush	169-6513	27.00	24.33	24.21
D01002	L	Flush	169-6514	27.69	24.95	24.82
D01003	L	Full Flush	169-6515	27.57	23.64	20.66

Tapered Head

D01004	S	Semi Flush	169-6516	26.35	23.77	23.62
D01005	S	Flush	169-6517	27.03	24.36	24.22
D01006	S	Full Flush	169-6519	27.64	24.92	24.78
D01007	L	Semi Flush	169-6521	27.00	24.33	24.21
D01008	L	Flush	169-6522	27.69	24.95	24.82
D01009	L	Full Flush	169-6523	27.96	25.22	25.03

Tapered & Relieved Head

D01010	S	Semi Flush	169-6524	25.16	23.32	23.20
D01011	S	Flush	169-6525	28.07	25.32	25.14
D01012	S	Full Flush	169-6526	28.12	25.37	25.19

Electronic Professional Pliers

DURATOOL

The Best Pliers You'll Ever Use



- High quality ball bearing steel
- 63 - 65 Rockwell Hardness (HRC)
- 2-Component ESD Ergonomic handles, soft comfortable gripping surface, hard plastic core
- Dual leaf springs in blue steel
- Matched bearing rings to minimize metal-metal contact and friction
- Lap joint with screw to achieve a high level of strength and precision

- Static dissipative (10^6 - 10^8 $\Omega/\text{sq.}$), oil, grease and wear-resistant

686047

Mfrs.	Overall length	Price Each					
List No.	Jaw	inch	mm	Order Code	1+	5+	10+

Long Snipe Nose

D01013	Smooth	5.6"	143	169-6527	23.97	21.59	21.45
D01014	Serrated	5.6"	143	169-6528	25.74	23.23	23.04

Snipe Nose

D01015	Smooth	5.2"	133	169-6529	23.19	20.89	20.76
D01016	Serrated	5.2"	133	169-6530	23.65	21.51	21.36

Flat Nose

D01017	Smooth	5.2"	133	169-6532	23.19	20.88	20.74
--------	--------	------	-----	-----------------	-------	-------	-------

Round Nose

D01018	Smooth	5.2"	133	169-6533	25.79	22.34	19.72
--------	--------	------	-----	-----------------	-------	-------	-------

DURATOOL

Component Pre-Forming Tools

DURATOOL

NEW



- Simple to use hand operated component performing tool for precise 90° bending of leads from circuit board components such as resistors, diodes, etc.
- Pitch is easily adjusted via a thumbwheel on the tool
- Pointers enable fast and accurate setting of pitch by alignment with PC8 holes
- TP9 accommodates the same range as the TP8 and adds the ability to crop to length at the same time
- TP12 is similar to the TP9 but is designed to work on miniature components

TP8	TP12	TP9
0.25-1mm	0.25-1mm	0.25-1mm
32mm	32mm	16mm
9.5mm	9.5mm	6.5mm
1mm	1mm	1mm
Maximum component diameter	13mm	13mm
Maximum length of cut	—	64mm
Minimum length of cut	—	19mm
Weight	226g	280g

685410

Price Each

Description	Mfrs. List No.	Order Code	1+
Forming handtool	TP 8	202-2738	52.06
Form/Crop handtool, small	TP 9	202-2739	72.44
Form/Crop handtool, large	TP 12	202-2740	69.05

Price Each

Mfrs.	Order Code	Price Each		
List No.		1+	5+	10+
D02002	209-4419	22.30	21.15	19.49

685411

Price Each

Mfrs. List No.	Order Code	Price Each		
		1+	5+	10+
D01823	206-4414	59.90	57.80	54.90

685594

Price Each

Mfrs. List No.	Order Code	Price Each		
		1+	5+	10+
D01824	206-4415	31.71	30.76	29.87

685595

Price Each

Mfrs.	Order Code	Price Each		
List No.		1+	5+	10+
D01824	206-4415	31.71	30.76	29.87

Price Each

VDE Tool Set

9 Piece

**DURATOOL****NEW**

- Chrome vanadium steel with two colour grip
- Packed in a plastic case with transparent cover
- Contents: 180mm VDE Combination pliers, 160mm VDE Side cutting pliers, 200mm VDE Long nose pliers, 2.5mm VDE slotted screwdriver, 4mm VDE slotted screwdriver, 5.5mm VDE slotted screwdriver, Size 1 VDE phillips screwdriver, Size 2 VDE phillips screwdriver, Neon screwdriver

685596

Price Each

Mfrs. List No.	Order Code	1+	5+	10+
D01825	206-4416	67.40	65.35	63.35

VDE Safety Belt Kit

9 Piece

**DURATOOL****NEW**

- Chrome vanadium steel with two colour grip
- Packed in a light weight pouch with buckle
- Contents: 180mm VDE combination pliers, 160mm VDE side cutting pliers, 3.0mm VDE slotted screwdriver, 4mm VDE slotted screwdriver, Size 1 VDE Phillips screwdriver, Size 2 VDE Phillips screwdriver, 140mm VDE electrician shears, 200mm VDE cable stripping knife, Neon screwdriver

685597

Price Each

Mfrs. List No.	Order Code	1+	5+	10+
D01826	206-4417	63.34	61.45	59.67

VDE Safety Kit Set

11 Piece

**DURATOOL****NEW**

- Chrome vanadium steel with two colour grip
- Packed in a zip up light weight carry case
- Contents: 180mm VDE combination pliers, 160mm VDE side cutting pliers, 200mm VDE long nose pliers, 2.5mm VDE slotted screwdriver, 4.0mm VDE slotted screwdriver, 5.5mm VDE slotted screwdriver, Size 1 VDE Phillips screwdriver, Size 2 VDE Phillips screwdriver, 140mm VDE electrician shears, 200mm VDE cable stripping knife, Neon screwdriver

685598

Price Each

Mfrs. List No.	Order Code	1+	5+	10+
D01828	206-4421	106.17	101.98	94.53

217 Piece Rotary Tool Set

UK Plug

**DURATOOL****NEW**

Variable speed rotary tool supplied with 217 various accessories. Ideal for electronics, hobbyists and crafts in an attractive carry and storage case with strong perspex window.

Voltage 230V
Input Power 130W
No Load Speed 8000 - 20000 rpm
Chuck Capacity 1, 2, 3.5, 3, 3.2mm

685412

Price Each

Mfrs. List No.	Order Code	1+
D02157	210-3255	25.35

208 Piece Rotary Access Set**DURATOOL****NEW**

Multi-tool for cutting, grinding, sanding, sharpening, polishing etc. Works on metal, wood, ceramic, glass and plastic. Will work with most rotary tools.

- 20 x Sanding bands
- 1 x Cloth wheel
- 5 x Felt wheel
- 1 x Rubber emery wheel
- 1 x Felt wheel point
- 3 x Polished hss twist drills 3.2, 2.4, 1.6mm
- 2 x Sanding shank

- 4 x Diamond cutter
- 3 x HSS cutter
- 6 x Aluminum oxide grinding wheel with shank
- 6 x Aluminum oxide grinding wheel
- 4 x Silicon carbide grinding wheel with shank
- 6 x Silicon carbide grinding wheel
- 3 x Nylon brush
- 3 x Stainless steel brush
- 3 x Brass brush
- 1 x Polishing compound
- 76 x Cut off wheels
- 44 x Sanding disc
- 4 x Chrome plated collect: 3.2, 2, 2.4, 1.6mm
- 4 x Mandrel
- 5 x Fibre glass cut off wheels
- 1 x Dressing stone SI carbide 25.4 x 9.5mm
- 1 x 9.5mm Wrench
- 1 x Flap wheel 32 x 9.5mm

685413

Mfrs.	Price Each
List No.	1+

D02158

210-3256

11.13

12V Li-Ion Drill/Driver**DURATOOL****NEW**

- Aluminum gear box housing
- Variable speed
- 10mm keyless chuck
- LED light
- Supplied with 12V 1.3Ah Li-Ion battery and charger

Technical Data	Technical Data
Battery Capacity	1.3Ah Li-Ion
Voltage	12V
Chuck	10mm
No Load Speed	0-350 / 0-1200 rpm

Mfrs.	Price Each
-------	------------

List No.

Order Code

1+

D01961

210-3239

39.62

D01964

Spare Battery

210-3243

16.21

18V Li-Ion Drill/Driver**DURATOOL****NEW**

- 16 Torque settings
- 2 Speed
- Keyless chuck
- Variable speed
- LED Light
- Forward/reverse switch
- Supplied with 18V 1.3Ah Li-Ion battery, charger, blow moulded case

Technical Data	Technical Data
Battery Capacity	1.3Ah Li-Ion
Voltage	18V
Chuck	10mm
No Load Speed	0-400 / 001200 rpm

Mfrs.	Price Each
-------	------------

List No.

Order Code

1+

D01965

210-3244

49.78

D01967

Spare Battery

210-3246

30.43

18V Li-Ion Combi Drill**DURATOOL****NEW**

A hammer drill and drill driver for drilling into masonry, concrete as well as wood, plastic and metals.

- 16 Torque settings
- 2 Speed
- 13mm Keyless chuck
- LED Light
- Forward, reverse and brake
- Soft touch, non-slip coating

Technical Data	Technical Data
Battery Capacity	Li-Ion
Voltage	18V
Chuck	13mm Keyless
No Load Speed	0-400 / 0-1200 rpm

Mfrs.	Price Each
-------	------------

List No.

Order Code

1+

D01966

210-3245

71.02

D01967

Spare Battery

210-3246

30.43

220W Multi Cutter



DURATOOL

NEW

D01960 220W multi cutter is a versatile sawing, cutting and sanding with one tool. Supplied with toolholder with universal changing of all accessories with an Allen key.

- Variable speed control
- Accessories can be attached at different angles
- Softgrip compact housing

- Additional accessory kit includes segment saw blade, E-cut Saw blade, spade, hex key, 1pc sandpaper fixing plate, sandpaper for metal and wood, blow moulded case

Technical Data

Technical Data

Operating Voltage

Oscillation Angle

Power Input

230V

220W

2.8°

685417

Mfrs.

List No.

D01959

D01960

Price Each

Order Code

210-3237

Accessory Kit

1+

30.38

10.11

Wall Organiser Cabinet

41 Compartments



DURATOOL

- 40 clear compartment pull out trays
- 1 large transparent tray
- Robust impact resistant plastic
- Suitable for wall or desk mounting
- Dimensions: (LxWxH) 310 x 138 x 490mm

685418

Order Code

Price Each

1+

5+

10+

20+

144-7384

13.32

12.13

11.14

10.78

Compartment Boxes

DURATOOL



- Transparent
- Hinged lids

685419

Price Each

Sections	Dimensions	Order Code	1+	5+	10+	20+	50+
18	230x125x35mm	144-7377	2.08	1.68	1.53	1.37	1.00
18	292x186x42mm	144-7378	2.44	2.03	1.67	1.50	1.20
24	382x235x48mm	144-7379	3.21	3.01	2.88	2.65	2.44

Assorter Cases

With or Without Removable Inserts

DURATOOL



NEW

Range of either economy cases with 18 compartments with semi-transparent lids or assortment cases with removable inserts.

- Secured by hinges
- Ideal for storing small components and fasteners
- Assortment cases complete with sliding lock to secure the lid
- Set of 4 assorter case suitable for wall or bench mounting
- NB: Tools and accessories not included

Mfrs.	Box Assortment /	Dimensions (H x W x D)	Number of Compartments	Number of Trays	Order Code
List No.	Tray Colour				
D01926	Orange	50 x 320 x 260mm	18	n/a	210-3206
D01927	Orange	60 x 380 x 310mm	18	n/a	210-3207
D01928	Orange	80 x 480 x 380mm	18	n/a	210-3208

DURATOOL

NEW

D01929	Yellow	30 x 175 x 140mm	n/a	2	210-3209
D01930	Yellow	55 x 240 x 195mm	n/a	8	210-3210
D01931	Yellow	60 x 340 x 250mm	n/a	13	210-3211
D01932	Yellow	55 x 415 x 330mm	n/a	17	210-3212
D01933	Black	310 x 375 x 265mm	n/a	4	210-3213

685420

Mfrs.	Order Code	1+	5+
Economy Boxes			
D01926	210-3206	3.06	2.96
D01927	210-3207	4.93	4.77
D01928	210-3208	8.19	7.93
With Removable Inserts			
D01929	210-3209	1.19	1.14
D01930	210-3210	2.28	2.23
D01931	210-3211	4.98	4.82
D01932	210-3212	8.24	7.98
Set of 4 Assorter Case			
D01933	210-3213	25.86	25.08

DURATOOL

General Purpose Tool Cases

18", 21" and Set



NEW

General purpose, steel tool boxes available in 18", 21" and as a set of 3.

685421

Mfrs.	Order Code	1+	5+
D01923	18"	210-3202	15.44
D01924	21"	210-3203	20.63
D01925	Set of 3	210-3204	50.78
			49.28

685422

Waterproof Case

DURATOOL

NEW



Waterproof case ideal for instruments, audio visual, photographic and test equipment. (Tools and equipment not included)

- Provides maximum shock protection to contents
- Waterproof
- Can be padlocked for additional security
- Built in pressure valve
- Corrosion proof
- Dimensions: (LxWxH) 270 x 250 x 125mm

685422

Mfrs.	Order Code	1+	5+
D01921	210-3201	19.69	19.12

685422

Wheeled Case

DURATOOL

With Foam Insert



NEW

ABS black wheeled case with foam insert for safe storage. Dimensions 230x350x560mm. (Note: tools are not included)

685599

Mfrs.	Order Code	1+	5+
D01920	210-3200	49.00	47.55

INTELLIGENT ONLINE BUYING SYSTEM PROVIDING

Complete cost control, reduced administration time, visibility of your spend, flexibility and personalised to your company's needs.

farnell.com/ibuy

Pro-Power offers thousands of great value products, including Cable & Wire, Cable Accessories, Marking & Labelling and Chemical ranges.

For more information please visit uk.farnell.com/pro-power

Tri-Rated Control & Switchgear Wire



Applications include wiring of switch, control, metering, relay and instrument panels of power switchgear and for such purposes as internal connections in rectifier equipment and in motor starters and controllers.

- PVC insulated plain annealed copper conductors
- Manufactured to UL1015
- Maximum operating temperature; 105°C
- Supplied in 100m reels

Current	CSA	Nominal	Current	CSA	Nominal
11.5A	0.5mm ²	3mm	43A	4mm ²	4.8mm
14A	0.75mm ²	3.1mm	56A	6mm ²	5.3mm
19A	1mm ²	3.3mm	79A	10mm ²	7.8mm
24A	1.5mm ²	3.6mm	105A	16mm ²	9mm
32A	2.5mm ²	4.1mm			

685493

Price Per Reel

Colour	Order Code	1+	5+	10+	25+
11.5A (0.5mm²)					
Black	117-8264●	10.36	10.05	9.89	--
Blue	117-8265●	10.36	10.05	9.89	--
Brown	117-8266●	10.36	10.05	9.89	--
Grey	117-8268●	10.36	10.05	9.89	--
Orange	117-8269●	10.36	10.05	9.89	--
Red	117-8270●	10.36	10.05	9.89	--
White	117-8272●	10.36	10.05	9.89	--
Yellow	117-8273●	10.36	10.05	9.89	--
Green, Yellow	117-8274●	10.36	10.05	9.89	--
16A (0.75mm²)					
Black	117-8275●	12.48	12.29	12.10	--
Blue	117-8276●	12.48	12.29	12.10	--
Brown	117-8278●	12.48	12.29	12.10	--
Grey	117-8279●	12.48	12.29	12.10	--
Orange	117-8280●	12.36	12.18	11.97	--
Red	117-8281●	12.48	12.29	12.10	--
Purple	117-8282●	12.48	12.29	12.10	--
White	117-8284●	12.48	12.29	12.10	--
Yellow	117-8285●	12.48	12.29	12.10	--
Green, Yellow	117-8286●	12.48	12.29	12.10	--
19A (1.0mm²)					
Black	117-8287●	16.88	16.52	16.20	16.10
Blue	117-8288●	16.88	16.52	16.20	16.10
Brown	117-8289●	16.88	16.52	16.20	16.10
Grey	117-8290●	16.88	16.52	16.20	16.10
Orange	117-8292●	16.88	16.52	16.20	16.10
Red	117-8293●	16.88	16.52	16.20	16.10
Purple	117-8294●	16.88	16.52	16.20	16.10
White	117-8297●	16.88	16.52	16.20	16.10
Yellow	117-8298●	16.88	16.52	16.20	16.10
Green, Yellow	117-8299●	16.88	16.52	16.20	16.10
24A (1.5mm²)					
Black	117-8300●	24.58	23.82	23.12	22.77
Blue	117-8302●	24.58	23.82	23.12	22.77
Brown	117-8303●	24.58	23.82	23.12	22.77
Grey	117-8304●	24.58	23.82	23.12	22.42
Orange	117-8305●	24.58	23.82	23.12	22.77
Red	117-8306●	24.58	23.82	23.12	22.77
White	117-8307●	24.58	23.82	23.12	22.77
Yellow	117-8308●	24.58	23.82	23.12	22.77
Green, Yellow	117-8309●	24.58	23.82	23.12	22.77
32A (2.5mm²)					
Black	117-8310●	36.39	35.30	34.24	33.69
Blue	117-8311●	36.39	35.30	34.24	33.69
Brown	117-8312●	36.39	35.30	34.24	33.69
Grey	121-9363●	49.98	48.64	47.33	46.83
Orange	121-9362●	42.75	41.47	40.24	39.60
Red	117-8314●	36.39	35.30	34.24	33.19
White	117-8317●	36.39	35.30	34.24	33.69
Yellow	117-8315●	36.39	35.30	34.24	33.69
Green, Yellow	117-8316●	36.39	35.30	34.24	33.69

Colour	Order Code	1+	5+	10+	25+
43A (4.0mm²)					
Black	117-8318●	63.59	61.68	59.80	58.90
Blue	117-8319●	63.59	61.68	59.80	58.90
Brown	117-8320●	63.59	61.68	59.80	58.90
Grey	177-3459●	54.68	53.04	52.22	--
Red	117-8321●	63.59	61.68	59.80	58.90
Yellow	117-8322●	63.59	61.68	59.80	58.02
Green, Yellow	117-8323●	48.08	47.04	45.52	44.09

Colour	Order Code	1+	5+	10+	25+
56A (6.0mm²)					
Black	117-8324●	88.97	86.31	84.97	--
Blue	117-8326●	88.97	86.31	84.97	--
Brown	117-8327●	88.97	86.31	84.97	--
Grey	177-3461●	71.49	69.34	68.27	--
Red	117-8328●	88.97	86.31	84.97	--
Yellow	117-8329●	88.97	86.31	84.97	--
Green, Yellow	117-8330●	88.97	86.31	84.97	--

Colour	Order Code	1+	5+	10+	25+
79A (10mm²)					
Black	117-8331●	200.03	194.06	188.21	185.32
Blue	117-8334●	202.24	196.18	190.29	184.60
Brown	177-3464●	140.40	138.38	136.35	--
Grey	177-3462●	152.55	147.99	145.71	--
Red	117-8332●	202.24	196.18	190.29	187.37
Green, Yellow	117-8333●	200.03	194.06	188.21	182.58

105A (16mm²)

Colour	Order Code	1+	5+	10+	25+
105A (16mm²)					
Black	117-8336●	292.30	277.67	267.78	--
Brown	177-3465●	165.76	149.72	136.51	--
Grey	177-3463●	207.63	202.82	198.00	--
Red	117-8339●	286.57	272.23	262.52	--
Green, Yellow	117-8341●	292.30	277.67	267.78	--

2491X Single Core Flexible



Conductor Size	CSA	Nominal Wall Thickness	Nominal Outside Dia
300/500 Volts			
3A	16 / 0.2mm	0.5mm ²	0.6mm
6A	24 / 0.2mm	0.75mm ²	0.6mm
10A	32 / 0.2mm	1mm ²	0.6mm
450/750 Volts			
16A	30 / 0.25mm	1.5mm ²	0.7mm
25A	50 / 0.25mm	2.5mm ²	0.8mm

Price Per Reel

Colour	Order Code	1+	5+
3A (0.5mm²)			
Black	117-7738●	9.10	8.82
Blue	117-7739●	9.10	8.82
Brown	117-7740●	9.10	8.82
Red	117-7741●	9.10	8.82
White	117-7742●	9.10	8.82
Yellow	117-7743●	9.02	8.77
Green, Yellow	117-7744●	9.02	8.77
6A (0.75mm²)			
Black	117-7745●	11.76	11.41
Blue	117-7747●	11.76	11.41
Brown	117-7748●	11.76	11.41
Red	117-7749●	11.76	11.41
White	117-7750●	11.76	11.41
Yellow	117-7751●	11.76	11.41
Green, Yellow	117-7752●	11.76	11.41

Colour	Order Code	1+	5+
10A (1.0mm²)			
Black	117-7753●	15.62	15.16
Blue	117-7754●	15.62	15.16
Brown	117-7755●	15.62	15.16
Red	117-7756●	15.62	15.16
White	117-7757●	15.62	15.16
Yellow	117-7759●	15.62	15.16
Green, Yellow	117-7761●	15.62	15.16
16A (1.5mm²)			
Black	117-7762●	18.67	18.10
Blue	117-7763●	18.67	18.10
Brown	117-7764●	18.67	18.10
Red	117-7765●	18.67	18.10
White	117-7766●	18.67	18.10
Yellow	117-7767●	18.45	17.88
Green, Yellow	117-7768●	18.67	18.10
25A (2.5mm²)			
Black	117-7769●	35.23	34.17
Blue	117-7770●	35.23	34.17
Brown	117-7772●	35.23	34.17
Red	117-7773●	35.23	34.17
White	117-7774●	34.77	33.72
Green, Yellow	117-7776●	35.23	34.17

2491B Single Core Flexible



Flexible single core cable with low smoke zero halogen insulation, for internal wiring of appliances with maximum operating temperatures of 90°C.

- Conductors: Annealed copper Insulation
- Type El.5 Low smoke zero halogen, thermosetting insulation
- Temp Rating: 90°C Max conductor operating temperature

- Voltage Rating: 2491B 300/500V (0.5 to 1.0mm)
- Voltage Rating: 2491B 450/750V (1.5 to 6.0mm)

CSA	Conductor Size	Nominal Outside Dia	685495
0.5mm ²	16 x 0.2mm	2.12mm	
0.75mm ²	24 x 0.2mm	2.33mm	
1mm ²	32 x 0.2mm	2.48mm	
1.5mm ²	30 x 0.25mm	2.98mm	
2.5mm ²	50 x 0.25mm	3.63mm	
6mm ²	84 x 0.3mm	5mm	

100m Reels	Colour	Order Code	1+	3+
0.5mm²				
Black	146-5920●	15.94	15.44	
Green, Yellow	146-5921●	15.63	15.14	
0.75mm²				
Brown	146-5923●	20.16	19.56	
Blue	146-5924●	20.16	19.56	
Black	146-5925●	20.16	19.56	
Green, Yellow	146-5926●	20.16	19.56	
1.0mm²				
Brown	146-5927●	24.89	24.15	
Blue	146-5928●	24.89	24.15	
Black	146-5929●	24.89	24.15	
Green, Yellow	146-5930●	24.89	24.15	
1.5mm²				
Brown	146-5931●	32.82	31.82	
Blue	146-5932●	32.82	31.82	
Black	146-5933●	32.18	31.20	
Green, Yellow	146-5935●	32.82	31.82	
2.5mm²				
Brown	146-5936●	42.06	40.79	
Blue	146-5937●	42.08	40.81	
Black	146-5938●	46.30	35.41	
Green, Yellow	146-5939●	58.28	56.53	
6.0mm²				
Blue	146-5941●	117.48	113.93	
Black	146-5942●	120.36	117.17	
Green, Yellow	146-5943●	158.17	153.44	

Switchgear Wire (BK & CK) to BS6231



Flexible switchgear and control wire, applications include the wiring of switch or control panels and in motor starters and controllers.

- PVC insulated plain annealed copper conductors to BS6231
- Maximum temperature ambient plus load; BK 70°C, CK 80°C (CK types however can be

used up to 105°C where there is no flexing or mechanical stress)

- Minimum temperature once installed; BK -20°C, CK -15°C

- Voltage rating: 600/1000V

Current Rating	Conductor Size	CSA	Nominal Wall Thickness	Nominal Outside Dia
19A	32 / 0.2mm	1mm ²	0.8mm	3.3mm
24A	30 / 0.25mm	1.5mm ²	0.8mm	3.6mm
32A	50 / 0.25mm	2.5mm ²	0.8mm	4.1mm
43A	56 / 0.3mm	4mm ²	0.8mm	4.8mm
56A	84 / 0.3mm	6mm ²	0.8mm	5.3mm
79A	80 / 0.4mm	10mm ²	0.8mm	7.2mm
105A	126 / 0.4mm	16mm ²	0.8mm	9mm
141A	196 / 0.4mm	25mm ²	0.8mm	11.5mm
167A	276 / 0.4mm	35mm ²	0.8mm	11.3mm

685496

100m Reels	Colour	Order Code	1+	5+
------------	--------	------------	----	----

19A Type BK

Black	117-9155●	24.17	23.34
Red	117-9156●	24.17	23.34

24A Type CK

Black	117-9157●	20.01	18.97
Blue	117-9158●	20.01	18.97
Red	117-9161●	35.42	32.33
Green, Yellow	117-9162●	35.42	32.33

32A Type CK

Black	117-9163●	30.03	29.13
Blue	117-9164●	48.13	44.06
Red	117-9165●	52.76	47.71
Green, Yellow	117-9167●	32.98	31.99

24A Type BK

Black	117-9168●	34.35	32.81
Green	117-9169●	34.35	32.81
Red	117-9170●	34.35	32.81
Green, Yellow	117-9171●	20.21	19.66

32A Type BK

Black	117-9173●	50.41	45.45
Blue	117-9174●	37.30	35.36
Red	117-9175●	50.41	45.45
Green, Yellow	117-9176●	50.41	45.45

43A Type BK

Black	117-9177●	69.89	63.33
Red	117-9178●	72.09	65.31
Green, Yellow	117-9179●	72.09	65.31

56A Type BK

Black	117-9180●	99.84	95.66
Blue	117-9181●	96.34	92.30
Red	117-9182●	99.84	95.66
Green, Yellow	117-9183●	99.84	95.66

79A Type BK

Black	117-9185●	154.70	146.96
Red	117-9186●	112.44	106.82
Green, Yellow	117-9187●	146.89	139.71

50m Reels	Colour	Order Code	1+	5+
-----------	--------	------------	----	----

105A Type BK

Black	117-9188●	119.20	113.29
Red	117-9189●	124.58	118.36
Green, Yellow	117-9190●	109.93	104.44

141A Type BK

Black	117-9191●	207.23	196.86
Red	117-9192●	198.99	189.03

167A Type BK

Black	117-9194●	261.76	253.70
-------	-----------	--------	--------

25m Reels	Colour	Order Code	1+	5+
-----------	--------	------------	----	----

56A Type BK

Black	117-9195●	29.62	28.13
Blue	117-9197●	29.02	27.65
Red	117-9198●	23.53	22.65
Yellow	117-9199●	18.99	18.28
Green, Yellow	117-9200●	18.98	18.28

25m Reels		Price Per Reel		
Colour	Order Code	1+	5+	
79A Type BK				
Black	117-9201●	47.25	44.92	
Red	117-9204●	47.25	44.92	
105A Type BK				
Black	117-9207●	63.18	60.02	
Red	117-9209●	63.18	60.02	
141A Type BK				
Black	117-9212●	93.54	88.87	

Equipment Wire



PVC insulated equipment wires intended for the internal wiring of electrical and electronic equipment.

- PVC insulated tinned copper conductors to **DEF61-12 (Part 6) Type 2 (1000V)** or **Type 3 (1500V)** and **BS4808 Part 2**.
- Various colours available

Nom. outside dia.	Type 2	Type 2	Type 2	Type 2	Type 3	Type 2	Type 3	Type 3	Type 3
Wall thickness	0.3mm	0.3mm	0.3mm	0.6mm	0.45mm	0.6mm	0.6mm	0.6mm	0.6mm
Voltage rating	1kV	1kV	1kV	1.5kV	1kV	1kV	1.5kV	1.5kV	1.5kV
Current rating @ 70°C	500mA	1.4A	3A	3A	4.5A	4.5A	6A	6A	11A

10/0.1mm Type 2 (0.078mm²)

Conductor 10/0.1mm

Colour	Order Code	Price Per Reel				
100m Reels		1+	5+	10+	25+	50+
Black	117-2853●	7.08	6.87	6.65	6.53	--
Brown	117-2854●	7.02	6.83	6.58	6.50	--
Red	117-2855●	7.02	6.83	6.58	6.40	5.31
Orange	117-2856●	7.02	6.83	6.58	6.40	5.31
Yellow	117-2857●	7.02	6.83	6.58	6.40	5.31
Green	117-2858●	10.23	9.95	9.59	9.33	7.74
Blue	117-2859●	7.02	6.83	6.58	6.40	5.31
Pink	117-2860●	7.02	6.83	6.58	6.40	5.31
Grey	117-2861●	7.02	6.83	6.58	6.40	5.31
White	117-2862●	7.02	6.83	6.58	6.40	5.31
Purple	117-2863●	7.02	6.83	6.58	6.40	5.31
500m Reels						
Red	117-2865●	35.86	33.09	30.71	28.68	23.24
Yellow	117-2866●	35.93	33.15	30.78	28.74	23.28
Green	117-2867●	35.23	32.50	30.18	28.17	22.82
Blue	117-2868●	35.86	33.12	30.71	28.68	22.78

7/0.2mm Type 2 (0.22mm²) Plain Colours

Conductor 7/0.2mm

Colour	Order Code	Price Per Reel				
100m Reels		1+	5+	10+	25+	50+
Black	121-9323●	6.25	5.94	--	--	--
Brown	121-9324●	9.00	8.71	--	--	--
Red	121-9325●	6.25	5.97	--	--	--
Orange	121-9326●	9.89	9.57	--	--	--
Yellow	121-9328●	6.26	5.91	--	--	--
Green	121-9329●	10.25	9.95	--	--	--
Blue	121-9330●	9.39	9.10	--	--	--
Purple	121-9331●	9.39	9.10	--	--	--
Grey	121-9332●	7.67	7.41	--	--	--
White	121-9333●	8.64	8.36	--	--	--
Pink	121-9334●	10.62	10.25	--	--	--
500m Reels						
Black	117-2870●	24.57	23.83	23.11	22.41	22.17
Brown	117-2871●	24.57	23.83	23.11	22.41	22.17
Red	117-2872●	24.57	23.83	23.11	22.41	22.17
Orange	117-2873●	24.57	23.83	23.11	22.41	22.17
Yellow	117-2874●	24.57	23.83	23.11	22.41	22.17
Green	117-2875●	24.57	23.83	23.11	22.41	22.17
Blue	117-2877●	24.57	23.83	23.11	22.41	22.17
Purple	117-2878●	24.57	23.83	23.11	22.41	22.17
Grey	117-2879●	24.57	23.83	23.11	22.41	22.17
White	117-2880●	24.57	23.83	23.11	22.41	22.17
Pink	117-2881●	24.57	23.83	23.11	22.41	22.17
Kit containing 1 of each colour (11x 100m Reels)						
Multiple	117-2882●	88.77	87.07	86.45	85.95	84.31

7/0.2mm Type 2 (0.22mm²) Bi-Colours

Conductor 7/0.2mm

Colour	Order Code	Price Per Reel				
100m Reels		1+	5+	10+	25+	50+
Black, Red	117-2883●	7.86	7.31	6.71	6.35	6.34
Brown, Red	117-2884●	7.86	7.31	6.71	6.35	6.34
Green, Red	117-2885●	7.86	7.31	6.71	6.35	6.34
Blue, Red	117-2886●	7.86	7.31	6.71	6.35	6.34
Black, Orange	117-2887●	7.86	7.31	6.71	6.35	6.34
Orange, Red	117-2889●	7.86	7.31	6.71	6.35	6.34
Black, Yellow	117-2891●	7.86	7.31	6.71	6.35	6.34
Red, Yellow	117-2892●	7.86	7.31	6.71	6.35	6.34
Green, Yellow	117-2893●	7.80	7.25	6.67	6.31	6.30
Green, Red	117-2894●	7.80	7.25	6.67	6.31	6.30
Purple, Red	117-2895●	7.74	7.19	6.60	6.25	6.24
Black, Grey	117-2896●	7.86	7.31	6.71	6.35	6.34
Blue, Grey	117-2897●	7.86	7.31	6.71	6.35	6.34
Black, White	117-2898●	7.80	7.25	6.67	6.31	6.30
Red, White	117-2899●	7.80	7.25	6.67	6.31	6.30
Black, Pink	117-2900●	7.86	7.31	6.71	6.35	6.34
Green, Yellow	117-2901●	7.86	7.31	6.71	6.35	6.34
Purple, Red	117-2902●	6.34	5.89	5.42	5.12	5.02

16/0.2mm Type 2 (0.5mm²) Plain Colours

Conductor 16/0.2mm

Colour	Order Code	Price Per Reel				
100m Reels		1+	5+	10+	25+	50+
Black	117-2904●	9.97	9.87	9.67	9.47	9.29
Brown	117-2905●	11.49	11.15	10.79	10.47	10.36
Red	117-2907●	9.97	9.87	9.67	9.47	9.29
Orange	117-2908●	11.49	11.15	10.79	10.47	10.36
Yellow	117-2909●	11.49	11.15	10.79	10.47	10.36
Green	117-2910●	11.49	11.15	10.79	10.47	10.36
Blue	117-2911●	11.49	11.15	10.79	10.47	10.36
Purple	117-2912●	11.49	11.15	10.79	10.47	10.36
Grey	117-2913●	11.49	11.15	10.79	10.47	10.36
White	117-2914●	11.49	11.15	10.79	10.47	10.36
Pink	117-2915●	11.49	11.15	10.79	10.47	10.36
500m Reels						
Black	117-2916●	52.49	50.89	49.38	47.88	47.42
Brown	117-2917●	53.27	51.66	50.13	48.61	48.12
Red	117-2919●	53.27	51.66	50.13	48.61	48.12
Orange	117-2921●	53.27	51.66	50.13	48.61	48.12
Yellow	117-2922●	53.27	51.66	50.13	48.61	48.12
Green	117-2923●	53.27	51.66	50.13	48.61	48.12
Blue	117-2924●	53.27	51.66	50.13	48.61	48.12
Purple	117-2925●	53.27	51.66	50.13	48.61	48.12
Grey	117-2926●	53.27	51.66	50.13	48.61	48.12
White	117-2927●	53.27	51.66	50.13	48.61	48.12
Pink	117-2928●	53.27	51.66	50.13	48.61	48.12
Kit containing 1 of each colour (11x 100m Reels)						
Black to Pink	117-2929●	88.84	86.16	83.58	81.08	78.64

16/0.2mm Type 2 (0.5mm²) Bi-Colours

Conductor 16/0.2mm

Colour	Order Code	Price Per Reel				
100m Reels		1+	5+	10+	25+	50+
Black, Red	117-2930●	15.30	14.83	14.39	13.96	13.81
Brown, Red	117-2932●	15.30	14.83	14.39	13.96	13.81
Green, Red	117-2933●	15.30	14.83	14.39	13.96	13.81
Blue, Red	117-2934●	15.30	14.83	14.39	13.96	13.81
Black, Orange	117-2935●	15.30	14.83	14.39	13.96	13.81
Orange, Red	117-2936●	15.30	14.83	14.39	13.96	13.81
Black, Yellow	117-2937●	15.30	14.83	14.39	13.96	13.81
Red, Yellow	117-2938●	15.30	14.83	14.39	13.96	13.81
Green, Yellow	117-2939●	15.30	14.83	14.39	13.96	13.81
Green, Red	117-2940●					

Conductor 16/0.2mm

Colour	Order Code	Price Per Reel				
100m Reels		1+	5+	10+	25+	50+
Black, Pink	117-2947●	15.30	14.83	14.39	13.96	13.81
Green, Yellow	117-2948●	15.30	14.83	14.39	13.96	13.81
Purple, Red	117-2949●	9.95	9.65	9.36	9.08	8.81
500m Reels						
Green, Yellow	117-2950●	51.61	49.96	48.52	47.09	46.56

16/0.2mm Type 3 (0.5mm²)**Conductor 16/0.2mm**

Colour	Order Code	Price Per Reel				
100m Reels		1+	5+	10+	25+	50+
Black	117-2952●	19.36	17.87	16.98	15.18	14.08
Brown	117-2953●	19.36	17.87	16.98	15.18	14.08
Red	117-2954●	19.36	17.87	16.98	15.18	14.08
Orange	117-2956●	19.36	17.87	16.98	15.18	14.08
Yellow	117-2957●	19.36	17.87	16.98	15.18	14.08
Green	117-2958●	19.36	17.87	16.98	15.18	14.08
Blue	117-2959●	19.36	17.87	16.98	15.18	14.08
Purple	117-2960●	19.36	17.87	16.98	15.18	14.08
Grey	117-2961●	19.36	17.87	16.98	15.18	14.08
White	117-2962●	19.36	17.87	16.98	15.18	14.08
Pink	117-2963●	19.36	17.87	16.98	15.18	14.08
Green, Yellow	117-2964●	18.88	17.44	16.55	14.81	13.74

24/0.2mm Type 2 (0.75mm²)**Conductor 24/0.2mm**

Colour	Order Code	Price Per Reel				
100m Reels		1+	5+	10+	25+	50+
Black	117-2965●	16.08	15.61	15.15	14.66	14.52
Brown	117-2966●	16.08	15.61	15.15	14.66	14.52
Red	117-2968●	16.08	15.61	15.15	14.66	14.52
Orange	117-2969●	16.08	15.61	15.15	14.66	14.52
Yellow	117-2970●	16.08	15.61	15.15	14.66	14.52
Green	117-2971●	16.08	15.61	15.15	14.66	14.52
Blue	117-2972●	16.08	15.61	15.15	14.66	14.52
Purple	117-2973●	16.08	15.61	15.15	14.66	14.52
Grey	117-2974●	16.08	15.61	15.15	14.66	14.52
White	117-2975●	16.08	15.61	15.15	14.66	14.52
Pink	117-2976●	16.08	15.61	15.15	14.66	14.52
Green, Yellow	117-2977●	15.40	14.97	14.52	14.09	13.94
Green, Yellow	117-2978●	15.40	14.97	14.52	14.09	13.94
500m Reels						
Black	117-2981●	69.92	67.81	65.92	64.09	63.98
Red	117-2982●	69.92	67.81	65.92	64.09	63.98
Blue	117-2984●	69.92	67.81	65.92	64.09	63.98
Grey	117-2985●	69.92	67.81	65.92	64.09	63.98
White	117-2986●	69.92	67.81	65.92	64.09	63.98
Pink	117-2989●	69.92	67.81	65.92	64.09	62.72

24/0.2mm Type 3 (0.75mm²)**Conductor 24/0.2mm**

Colour	Order Code	Price Per Reel				
100m Reels		1+	5+	10+	25+	50+
Black	117-2995●	17.05	15.84	15.63	15.34	15.14
Brown	117-2996●	17.05	15.84	15.63	15.34	15.14
Red	117-2997●	17.05	15.84	15.63	15.34	15.14
Orange	117-2998●	17.05	15.84	15.63	15.34	15.14
Yellow	117-2999●	17.05	15.84	15.32	15.04	14.84
Green	117-3000●	17.05	15.84	15.63	15.34	15.14
Blue	117-3001●	17.05	15.84	15.63	15.34	15.14
Purple	117-3002●	16.71	15.52	15.32	15.04	14.84
Grey	117-3003●	16.71	15.52	15.32	15.04	14.84
White	117-3004●	16.89	15.70	15.45	15.21	14.99
Pink	117-3006●	13.01	12.34	11.69	11.36	10.21
Green, Yellow	117-3007●	16.45	15.30	15.07	14.80	14.60
500m Reels						
Black	117-3008●	78.38	71.27	63.56	55.87	52.84
Red	117-3009●	51.01	47.37	44.20	41.44	39.01
White	117-3011●	78.38	71.27	63.56	62.92	56.99

32/0.2mm Type 3 (1.0mm²)**Conductor 32/0.2mm**

Colour	Order Code	Price Per Reel				
100m Reels		1+	5+	10+	25+	50+
Black	117-3012●	19.30	18.73	18.17	17.62	17.44
Brown	117-3013●	19.30	18.73	18.17	17.62	17.44
Red	117-3014●	19.30	18.73	18.17	17.62	17.44
Orange	117-3015●	19.30	18.73	18.17	17.62	17.44
Yellow	117-3016●	19.30	18.73	18.17	17.62	17.44
Green	117-3018●	19.30	18.73	18.17	17.62	17.44
Blue	117-3019●	19.30	18.73	18.17	17.62	17.44
Purple	117-3020●	19.30	18.73	18.17	17.62	17.44
Grey	117-3021●	19.30	18.73	18.17	17.62	17.44
White	117-3022●	19.30	18.73	18.17	17.62	17.09
Pink	117-3023●	19.30	18.73	18.17	17.62	17.44
Green, Yellow	117-3024●	19.33	18.76	18.20	17.66	17.47
Green, Yellow	117-3025●	19.33	18.76	18.20	17.66	17.47
500m Reels						
Black	117-3026●	85.71	83.13	80.66	78.23	77.38
Red	117-3027●	85.71	83.13	80.66	78.23	77.38
Blue	117-3031●	85.71	83.13	80.66	78.23	77.38
Brown	117-3032●	82.73	80.43	78.27	75.96	73.87
Pink	117-3034●	71.89	70.27	68.73	67.25	65.83
Yellow	117-3036●	85.71	83.13	80.66	78.23	75.87
Green, Yellow	117-3038●	86.07	83.49	81.01	78.56	77.70

63/0.2mm Type 3 (2.0mm²)

685497

Conductor 63/0.2mm

Colour	Order Code	Price Per Reel					
100m Reels		1+	5+	10+	25+	50+	
Black	117-3039●	39.04	37.06	35.20	33.48	32.45	
Red	117-3040●	38.63	36.66	34.81	33.09	32.09	
500m Reels							
Black	120-2663●	30.84	29.15	28.53	23.61	23.58	
100M Reel	RG58BU	120-2665●	64.00	62.06	60.21	58.40	57.79
500M Reel	RG58CU	120-2666●	257.11	248.04	246.72		
Continuous Length in 1m Multiples	RG58BU	144-0543●	0.90				

RG174AU 50Ω

685499

Reel	Price Per Reel				
Colour	Length	Order Code	1+	5+	10+
Black	50m	120-2736●	25.39	24.73	24.23
Black	100m	120-2737●	41.37	40.32	39.46
Black	500m	120-2738●	247.86	226.51	220.71
Black	1m	138-7745●	0.76	—	—



Grey 1.27mm (0.05") Pitch



- Manufactured in VW-1 flame retardant Grey PVC sleeving
- The first conductor is identified by a Red leading edge

Wire gauge	AWG stranded 7/0.127mm tinned copper	Impedance	100Ω
Temperature rating	105°C	Capacitance	45pF/m
Voltage rating	300V	Inductance	1.45μH/m
Propagation delay	4.2ns/m	Insulation resistance	6GΩ/m

686053

30.5m Reels Conductors		Order Code	Price Per Reel		
			1+	5+	10+
8	918-7111●	18.31	17.76	17.47	
9	918-7120●	7.18	—	—	
10	918-7138●	14.72	14.08	13.76	
14	918-7146●	18.26	17.50	16.19	
15	918-7154●	14.67	13.91	13.18	
16	918-7162●	20.66	19.74	18.26	
20	918-7170●	28.40	25.95	24.00	
24	918-7189●	31.89	31.41	30.91	
25	918-7197●	36.93	33.63	31.11	
26	918-7200●	31.33	29.96	28.60	
34	918-7219●	31.52	28.49	25.97	
36	918-7227●	41.92	36.32	32.06	
37	918-7235●	45.86	44.59	44.05	
40	918-7243●	35.46	32.02	29.20	
50	918-7251●	62.54	59.67	56.80	
60	918-7260●	84.42	81.89	80.61	
64	918-7278●	87.42	80.40	75.33	

Ribbon Cable Clamps - Self-Adhesive



- One-piece releasable ribbon cable clamps in Natural Nylon 66
- Self-adhesive foam pad
- Flame retardant to UL94V-2

Max. Cable Width (mm)	Overall Length (mm)	Overall Width (mm)	Overall Height (mm)	Order Code
32	45.8	19.4	18	126-8996
39.5	53.3	19.4	18	126-8997
63.5	76.2	19.4	18	126-8998

686054

Max. Cable Width	Order Code	10+	50+	100+	500+	1K+
32	126-8996●	0.38	0.33	0.26	0.23	0.21
39.5	126-8997●	0.47	0.43	0.38	0.32	0.25
63.5	126-8998●	0.50	0.48	0.44	0.39	0.32

Cable Ties



- One piece non-releasable cable ties manufactured in Natural or Black Nylon 66
- Flame retardant to UL94V-2

Length (mm)	Width (mm)	Min. Tensile Strength (kg)	Max. Bundle Dia. (mm)	Natural Order Code	Black Order Code
71	1.6	—	11	177-3454	177-3455
100	2.5	—	22	141-6039	141-6050
203	2.5	17.63(lb)	55	141-6040	141-6051
142	3.2	18	34	141-6041	141-6052
203	3.6	18	52	141-6043	141-6053
120	4.8	22	27	141-6044	141-6055
203	4.6	22	52	141-6045	141-6056
250	4.8	22	68	141-6046	141-6057
368	4.8	22	105	141-6047	141-6058
203	7.6	55	52	141-6048	141-6059
380	7.6	55	105	141-6049	141-6060

686500

100 Per Pack		Price Per Pack		
Order Code		1+	5+	25+
Natural	177-3454●	1.19	0.84	0.65
Natural	141-6039●	1.46	1.07	0.87
Natural	141-6040●	2.07	1.71	1.37
Natural	141-6041●	3.11	2.65	2.31
Natural	141-6043●	2.64	2.16	1.69

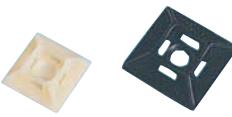


100 Per Pack

Order Code	1+	5+	10+	25+
Natural 141-6044●	2.22	1.86	1.46	1.40
Natural 141-6045●	2.81	2.32	1.83	1.72
Natural 141-6046●	5.04	4.24	3.33	3.14
Natural 141-6047●	6.54	6.00	4.80	4.42
Natural 141-6048●	7.30	6.49	5.65	5.28
Natural 141-6049●	15.22	14.48	13.38	12.88
Black 177-3455●	1.26	0.89	0.69	0.56
Black 141-6050●	1.42	1.04	0.84	0.68
Black 141-6051●	2.07	1.71	1.37	1.28
Black 141-6052●	3.74	2.80	2.32	1.98
Black 141-6053●	2.84	2.37	1.86	1.76
Black 141-6055●	2.22	1.86	1.46	1.40
Black 141-6056●	3.05	2.55	2.02	1.91
Black 141-6057●	5.04	4.24	3.33	3.14
Black 141-6058●	6.05	5.45	4.37	4.01
Black 141-6059●	6.84	5.96	5.17	4.85
Black 141-6060●	13.44	12.53	11.57	11.17



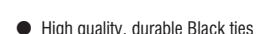
Cable Tie Mounting Bases



- Natural or Black ABS plastic mounting bases with self-adhesive or central screw fixing options
- Accepts ties from all four sides

100 Per Pack		Price Per Pack
Order Code		1+
Natural 268-690		8.91
Natural 268-707		9.30
Black 268-719		8.91
Black 268-720		9.11

Weather Resistant Cable Ties



- High quality, durable Black ties
- Specifically manufactured for use in outdoor environments
- Manufactured from nylon 6/6 with added carbonate A
- Excellent resistance to ultra violet light
- UL recognised (E97527)

685502

Length (mm)	Width (mm)	Order Code	1+	10+	50+
100	2.5	126-8999●	1.49	1.14	0.93
120	4.8	126-9000●	3.75	2.92	2.48
142	2.5	126-9001●	2.23	1.81	1.53
142	3.2	126-9002●	2.78	2.25	1.93
165	2.5	126-9003●	2.98	2.34	2.01
160	4.8	126-9004●	1.98	1.74	1.65
203	2.5	126-9005●	2.47	2.11	1.85
203	3.6	126-9006●	2.08	1.87	1.78
203	4.6	126-9007●	2.24	2.11	2.03
292	3.6	126-9009●	3.00	2.87	2.80
300	4.8	126-9011●	3.43	3.21	2.97
370	3.6	126-9012●	3.74	3.52	3.28
370	4.8	126-9013●	4.33	4.19	3.93
380	7.6	126-9014●	9.40	8.96	8.75

Spiral Wrap



- Durable, reusable with retained spiral strength
- Fix ends of band with cable ties and spiral wire bundles in anti-clockwise direction to complete works
- Flexible construction encables bands to follow wire ways easily
- Expand spiral range almost without limit
- Available in Natural or Black

686057

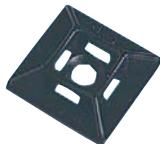
10m Coil		Bore	Price Per Coil		
Natural	Dia. (mm)	Order Code	1+	5+	10+
KS6N	3.2	141-6082●	2.16	1.79	1.42
KS10N	7.5	141-6083●	3.83	3.17	2.53
KS15N	12	141-6084●	7.09	5.84	4.66
KS19N	15	141-6085●	7.84	6.49	5.19
KS24N	20	141-6086●	10.11	8.35	6.67

Black

KSR6BK	3.2	141-6087●	2.21	1.82	1.45
KSR10BK	7.5	141-6088●	3.91	3.23	2.58
KSR15BK	12	141-6089●	5.63	4.65	3.72
KSR19BK	15	141-6090●	7.71	6.38	5.08
KSR24BK	20	141-6092●	9.63	7.96	6.34

Cable Tie Mounting Bases

Natural and Black



- Natural or Black nylon 66 mounting bases, self-adhesive or central screw fixing
- Accepts ties from all four sides
- Flame retardant to UL94V2

Base size = 28 x 28, Max. cable width = 5, Mounting hole = 5

100 Per Pack

		Price Per Pack			
	Order Code	1+	5+	10+	50+
Natural	121-8024●	9.09	8.03	6.86	5.99
Black	121-8026●	10.16	8.94	7.61	6.68

Identification Cable Ties



- One piece non-releasable identification ties
- Manufactured in TO UL94V-2 flame retardant Natural Nylon 66
- Tag can be marked using self-adhesive labels or indelible marker pen

FOR SUITABLE MARKER PEN SEE ORDER CODE 117-9865

100 Per Pack

		Price Per Pack					
L	W	Dia.	Order Code	1+	5+	10+	50+
100mm	2.5mm	25mm	141-6064●	4.14	3.67	3.25	2.71
110mm	2.5mm	25mm	174-0426●	3.48	3.23	3.01	2.83
130mm	2.5mm	25mm	174-0425●	4.43	4.14	3.88	3.69
200mm	2.5mm	50mm	174-0429●	4.14	3.88	3.60	3.40
200mm	4.6mm	50mm	174-0427●	3.64	3.25	2.93	2.67
270mm	4.6mm	75mm	174-0431●	3.33	2.89	2.55	2.29

Polyimide ESD Tape



- Primer coated with Dow Corning Silicone adhesive
- Pressure sensitive adhesive and anti corrosion
- Heat resistant up to 280°C @ 5 mins max
- Backing Thickness = 0.025mm
- Total Thickness = 0.065mm
- ESD safe
- Brown colour
- Available in a variety of widths with a standard length of 33m

Mfrs.	Tape Width	List No.	Order Code	1+	5+	10+
	9mm	PPC212	206-1290●	11.71	11.12	10.56
	12mm	PPC213	206-1291●	15.60	14.82	14.09
	19mm	PPC214	206-1292●	24.70	23.47	22.29
	25mm	PPC215	206-1293●	32.51	30.87	29.34

Polyimide Brown Tape



NEW



- Primer coated with Dow Corning Silicone adhesive
- Pressure sensitive adhesive and anti corrosion
- Heat resistant up to 260°C @ 5 mins max
- Backing Thickness = 0.025mm
- Total Thickness = 0.065mm
- Brown colour
- Available in a variety of widths with a standard length of 33m

685506

Mfrs.	Tape Width	List No.	Order Code	1+	5+	10+
	6mm	PPC216	206-1294●	2.33	2.22	2.11
	9mm	PPC217	206-1295●	3.49	3.31	3.15
	12mm	PPC218	206-1297●	4.67	4.43	4.20
	19mm	PPC219	206-1298●	7.39	7.03	6.66
	25mm	PPC220	206-1299●	9.26	8.79	8.35

Polyimide Brown Tape



NEW



- Primer coated with Dow Corning Silicone adhesive
- Pressure sensitive adhesive and anti corrosion
- Heat resistant up to 280°C @ 5 mins max
- Backing Thickness = 0.025mm
- Total Thickness = 0.055mm
- Brown colour
- Available in a variety of widths with a standard length of 33m

685507

Mfrs.	Tape Width	List No.	Order Code	1+	5+	10+
	6mm	PPC221	206-1300●	2.13	2.03	1.92
	9mm	PPC222	206-1301●	3.19	3.05	2.87
	12mm	PPC223	206-1303●	4.24	4.02	3.83
	19mm	PPC224	206-1304●	6.72	6.40	6.07
	25mm	PPC225	206-1305●	8.84	8.40	7.99

Polyimide Double Sided Adhesive Tape



NEW



- Primer coated with Dow Corning Silicone adhesive
- Pressure sensitive adhesive and anti corrosion
- Heat resistant up to 280°C @ 5 mins max
- Workside Adhesive 5.8-7.6/N : Adhesive Side 6.5-8.3/N
- Backing Thickness = 0.025mm
- Total Thickness = 0.150mm
- Brown colour
- Available in a variety of widths with a standard length of 33m

685508

Mfrs.	Tape Width	List No.	Order Code	1+	5+	10+
	6mm	PPC226	206-1306●	9.16	8.71	8.25
	9mm	PPC227	206-1307●	13.73	13.04	12.40
	12mm	PPC228	206-1308●	18.32	17.40	16.53
	19mm	PPC229	206-1309●	29.00	27.55	26.18
	25mm	PPC230	206-1310●	38.15	36.25	34.43

Tape, Foam Sealer, Black



Medium density PVC foam air, dust and weatherseal, coated on the face side with an acrylic pressure sensitive adhesive for easy positioning. A removable support liner on the other side prevents stretch during application. For general sealing and cushioning applications, can be cleanly drilled through for mechanical fixing.

- Cushioning
- Sound insulation
- Water seals
- Air seals
- Dust seals
- Light seals
- Anti-vibration insulation
- Electrolytic insulation
- Draught seals
- Security bonding

685509

Tape Length	Tape Width	Mfrs. List No.	Order Code	Price Per Reel 1+	5+	10+
25m	6mm	PPC116	176-0686●	3.59	3.23	2.91
4.5m	12mm	PPC117	176-0687●	4.66	4.19	3.76
15m	19mm	PPC118	176-0688●	7.46	6.71	6.04
12m	19mm	PPC119	176-0689●	7.35	6.61	5.95

Battery Retainer Clips



206-4669

206-4713

Contact Material Phosphor Bronze

Contact Plating Nickel

685510

NEW

Battery Sizes

Accepted

Order Code

Price Each

2450

206-4669●

0.250

2032

206-4713●

0.168

0.220

0.156

0.200

0.133

0.168

0.112

Battery Holders

Through Hole
HorizontalThrough Hole
Vertical

Surface Mount

NEW

NOTE: Please see individual datasheets for dimensional detail.

685511

Battery Sizes Accepted		Price Each			
Colour	Order Code	5+	25+	100+	250+

Through Hole - Horizontal

23mm Coin Cell	Black	206-4714●	0.33	0.29	0.26	0.21
20mm Coin Cell	Black	206-4715●	0.32	0.28	0.25	0.20
24mm Coin Cell	Black	206-4717●	0.42	0.38	0.35	0.27
20mm Coin Cell	Black	206-4719●	0.47	0.43	0.39	0.33
12mm Coin Cell	Black	206-4720●	0.39	0.36	0.33	0.26
12mm Coin Cell	Black	206-4721●	0.41	0.37	0.34	0.27
20mm Coin Cell	White	206-4726●	0.39	0.36	0.33	0.26

Through Hole - Vertical

20mm Coin Cell	Black	206-4718●	0.44	0.41	0.37	0.29
----------------	-------	-----------	------	------	------	------

Surface Mount

12mm Coin Cell	Black	206-4722●	0.52	0.47	0.43	0.36
20mm Coin Cell	Black	206-4723●	0.59	0.54	0.48	0.40
20mm Coin Cell	Black	206-4724●	0.32	0.28	0.25	0.20
20mm Coin Cell	White	206-4725●	0.37	0.34	0.29	0.23

i-Buy

INTELLIGENT ONLINE BUYING SYSTEM PROVIDING

Complete cost control, reduced administration time, visibility of your spend, flexibility and personalised to your company's needs.
farnell.com/ibuy

Single/Multicell



A range of general purpose battery holders moulded in black plastic suitable for project work.



Note: Not suitable for use with nickel cadmium cells or for industrial applications

685512

5 Per Pack

Can Style	Connection	W	D	H	Order Code
AA	Wire Leads	56	16	13	118-3113
AA	Wire Leads	58	25	17	118-3115
AA	Snap terminals	56	25	17	118-3116
AA	Snap terminals	60	30	28	118-3117
AA	Snap terminals	58	29	63	118-3118
C	Snap terminals	60	53	21	118-3119
C	Snap terminals	108	53	23	118-3120
D	Snap terminals	69	36	27	118-3121
D	Snap terminals	68	68	30	118-3122

Price Per Pack

Can Style	Order Code	1+	5+	20+
AA	118-3113●	2.02	1.71	1.53
AA	118-3115●	2.63	2.29	2.04
2 x AA	118-3116●	2.29	2.03	1.79
4 x AA	118-3117●	2.76	2.40	2.16
8 x AA	118-3118●	6.84	6.65	6.03
2 x C	118-3119●	4.46	3.93	3.45
4 x C	118-3120●	5.22	4.58	4.12
1 x D	118-3121●	2.66	2.32	2.09
2 x D	118-3122●	4.21	3.67	3.29

685513

Snap-On



Type 1

Type 2

Lead length = 150

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

685513

Essential brands

for all of your design and maintenance needs!

multicomp

TENMA™

pro-POWER

pro-ELEC

pro-SIGNAL

DURATOOL

Component products to support your design projects from Multicomp including top quality:

- Capacitors
- Resistors
- Potentiometers
- Connectors
- Semiconductors
- LEDs

Plus, essential support products from Duratool, Tenma, Pro Signal, Pro Power and Pro Elec, including:

- Test Equipment
- Cable and Wiring
- Soldering stations
- Tools

Great Value Development, Production and Maintenance products

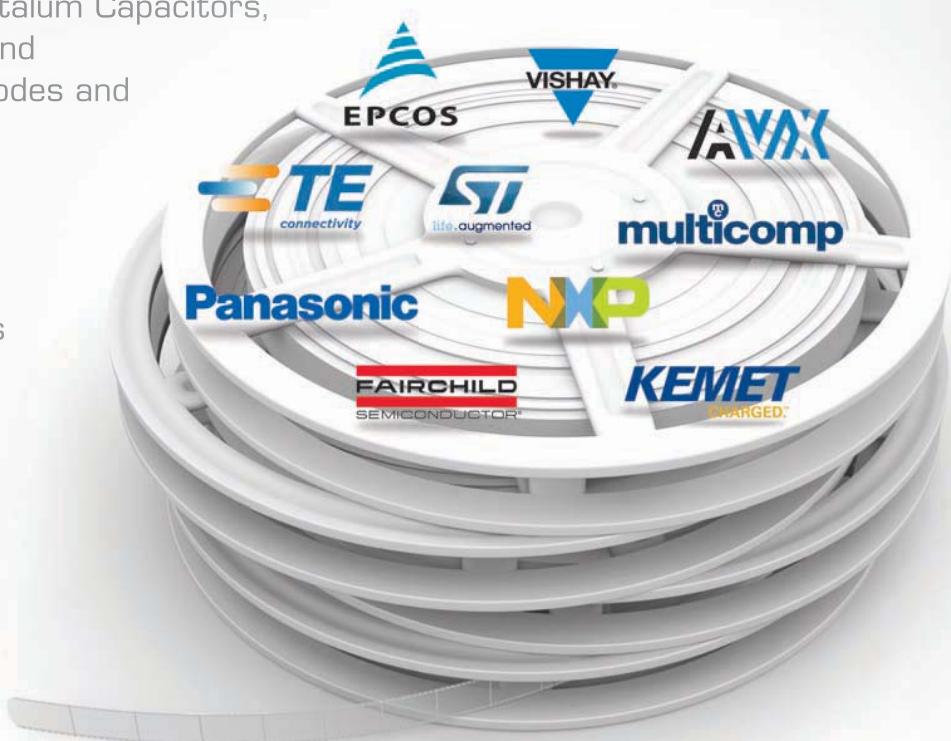


 Farnell

 element14

Explore our extended ranges of Full Reel Passives and Discrete components – Now in stock

- Thousands of new parts to chose from, including:
Thick film Resistors, Tantalum Capacitors,
Electrolytic Capacitors and
Varistors to Discrete Diodes and
Mosfets
- All available for next day delivery
- The ideal option for your production requirements brought to you from leading manufacturers
- Competitive prices on all reeled products



Have you tried our FREE Re-reeling service:

- Available on over 52,000 surface mount components, offering no more wasted components or unused stock at no extra cost!
- Available on a wide range of capacitors, resistors, inductors, diodes, transistors, optos and IC's



element¹⁴

farnell.com